# INITIALIZATION OF THE AN/TPQ-36(V)8 FIREFINDER

# TERMINAL LEARNING OBJECTIVE

**Given an operational AN/TPQ-36 (V) 8 radar shelter (S-788) the student will enter, print, edit, and save initialization data, then enter the operations program.**

# ENABLING OBJECTIVES

- **Specify new data or load an existing file.**
- **Enter/edit date and time.**
- **Enter/edit adaptation constants.**
- **Enter/edit site data.**

# ENABLING OBJECTIVES

- **Enter/edit height correction data.**
- **Enter/edit search data.**
- **Enter/edit communications data.**
- **Enter/edit met data.**
- **Enter terrain following data.**

# Initialization

**Purpose:**

- The initialization program must be run to enter the parameters required for radar set operation.
- The program will automatically prompt the operator for data needed.
- When all data has been entered, the operational program will be automatically loaded.

**Sequence:**

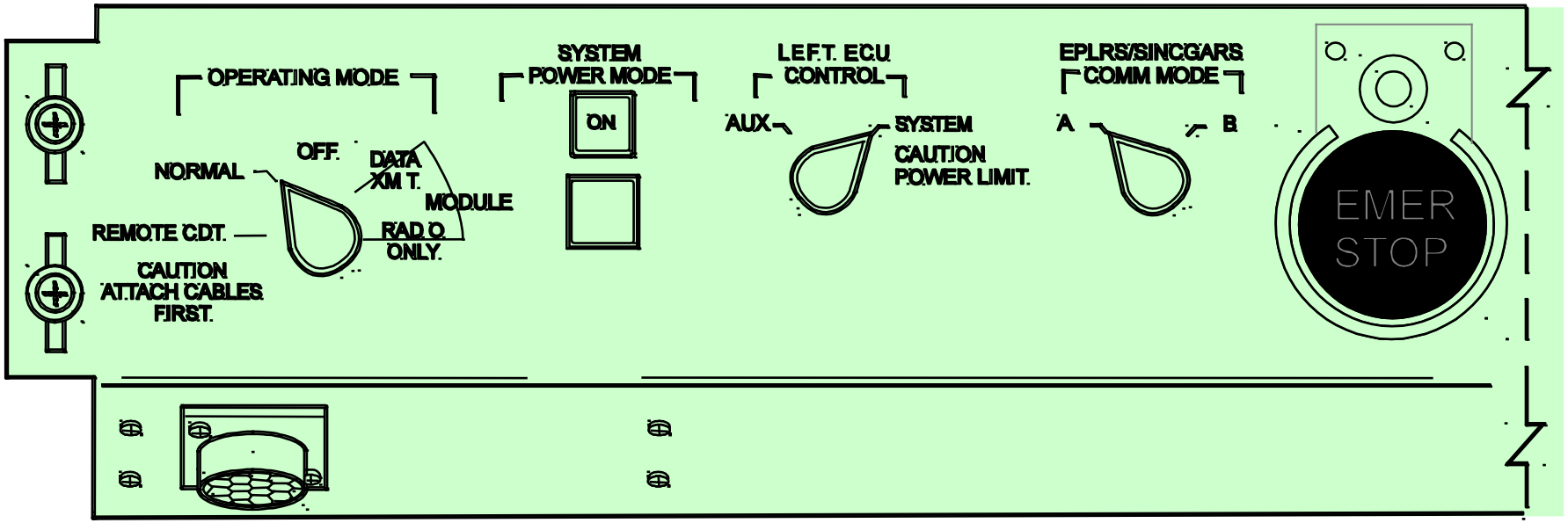
- Gather initialization data.
- Enter data on initialization worksheets.
- Select the initialization program and

# Initialization Data

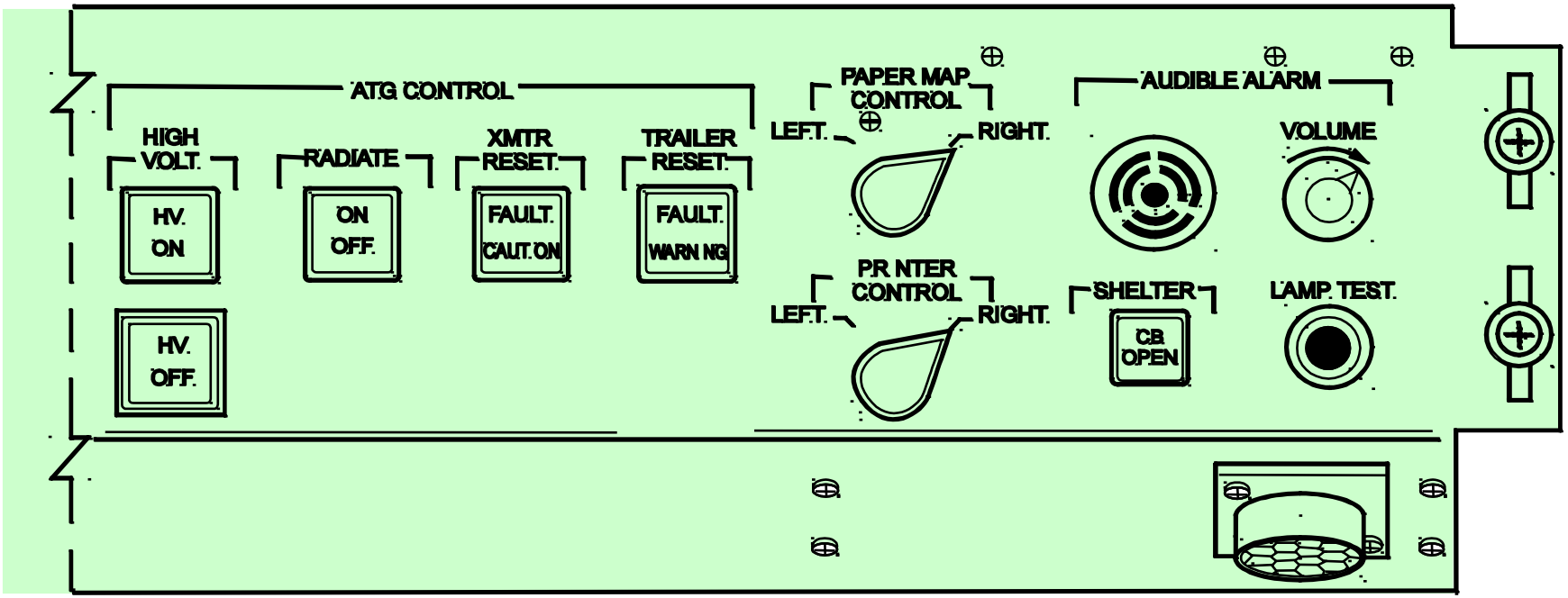
**Requirements:**

- Adaptation constants.
- Map data.
- Site data.
- Height correction data.
- Search data.
- Communications net data.
- Meteorological data.
- Manual terrain following data.

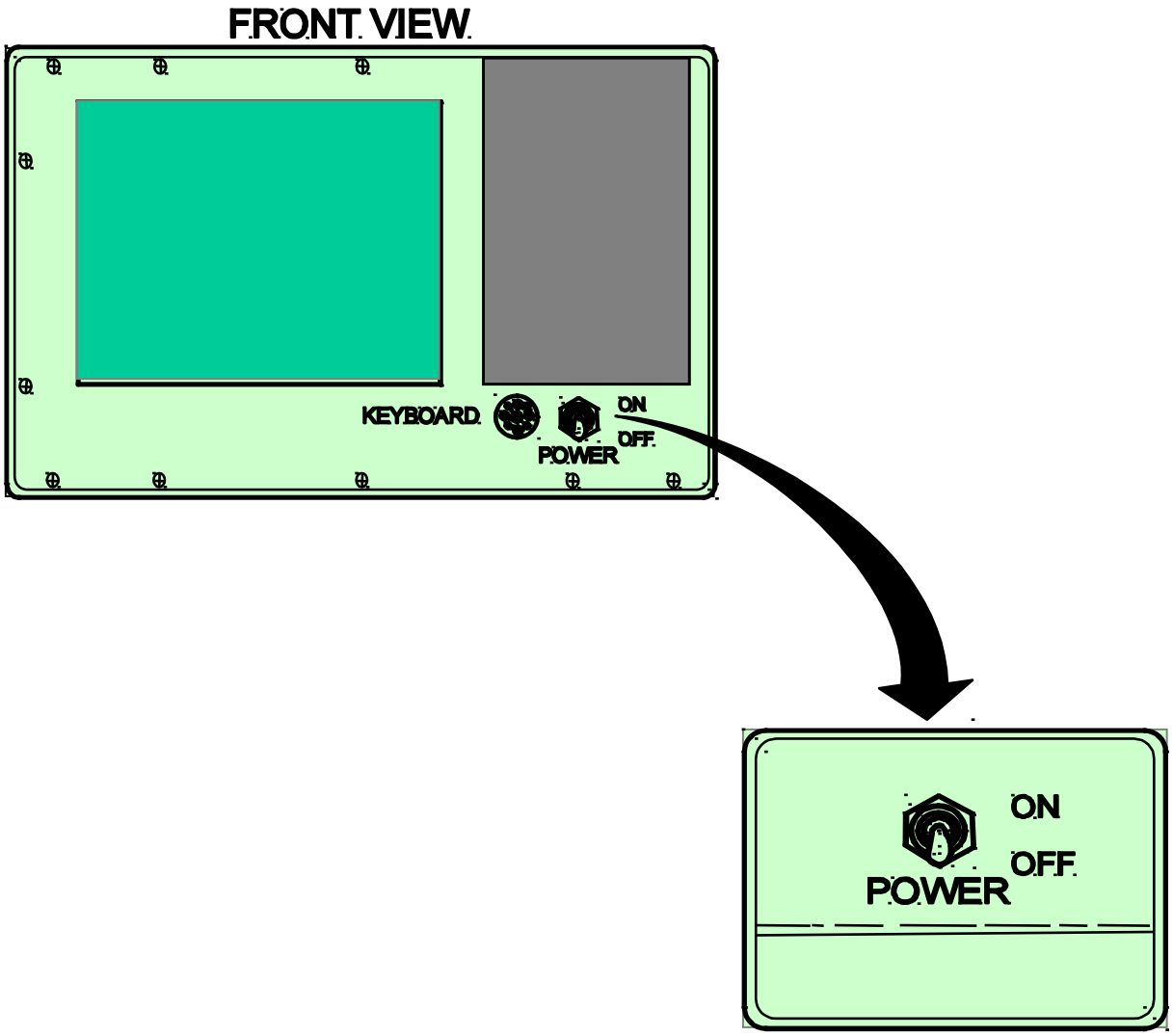
# Booting the LCU for Initialization



# Booting the LCU for Initialization



# Apply power to the LCU

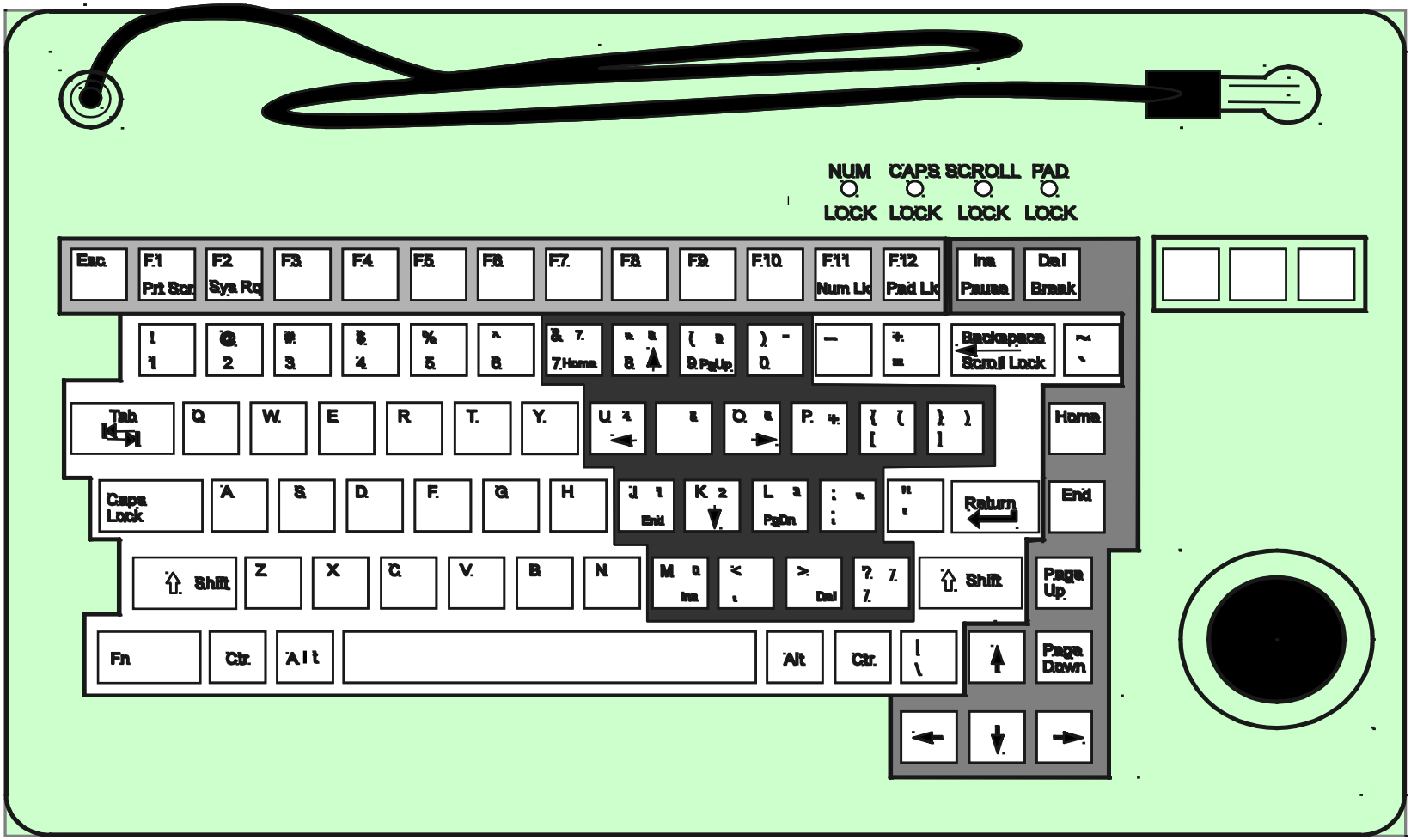


# Interfacing with the Radar System

- **POINT – Move the cursor or arrow to the selection.**

- **CLICK – Depress the <u>LEFT</u> Trackball Control key.**

# Trackball


NUM LOCK
CAPS LOCK
SCROLL LOCK
PAD LOCK
Esc
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
F11
F12
Ins
Del
Backspace
Tab
Caps Lock
Return
Home
End
Shift
Ctr.
Alt
Fn
Page Up
Page Down

# Interfacing with the Radar System (Cont.)

- **POINT AND CLICK ON:**

**- THE PULL-DOWN MENU OF CHOICE OR THE SELECTED ITEM OR THE FIELD ON THE SCREEN TO BE MODIFIED.**

**- RADIO BUTTON REPRESENTING THE OPTION TO BE SELECTED.**

**- THE ACTION BUTTON (YES, OK, or NO) DESIGNATING THE CHOSEN RESPONSE TO A QUERY OR CHOICE.**

# Interfacing with the Radar System (Cont.)

- **USE OF KEYBOARD**
  - **RETURN**
  - **TAB**
  - **SPACE BAR**
  - **ARROW KEYS**
  - **ESCAPE KEY**

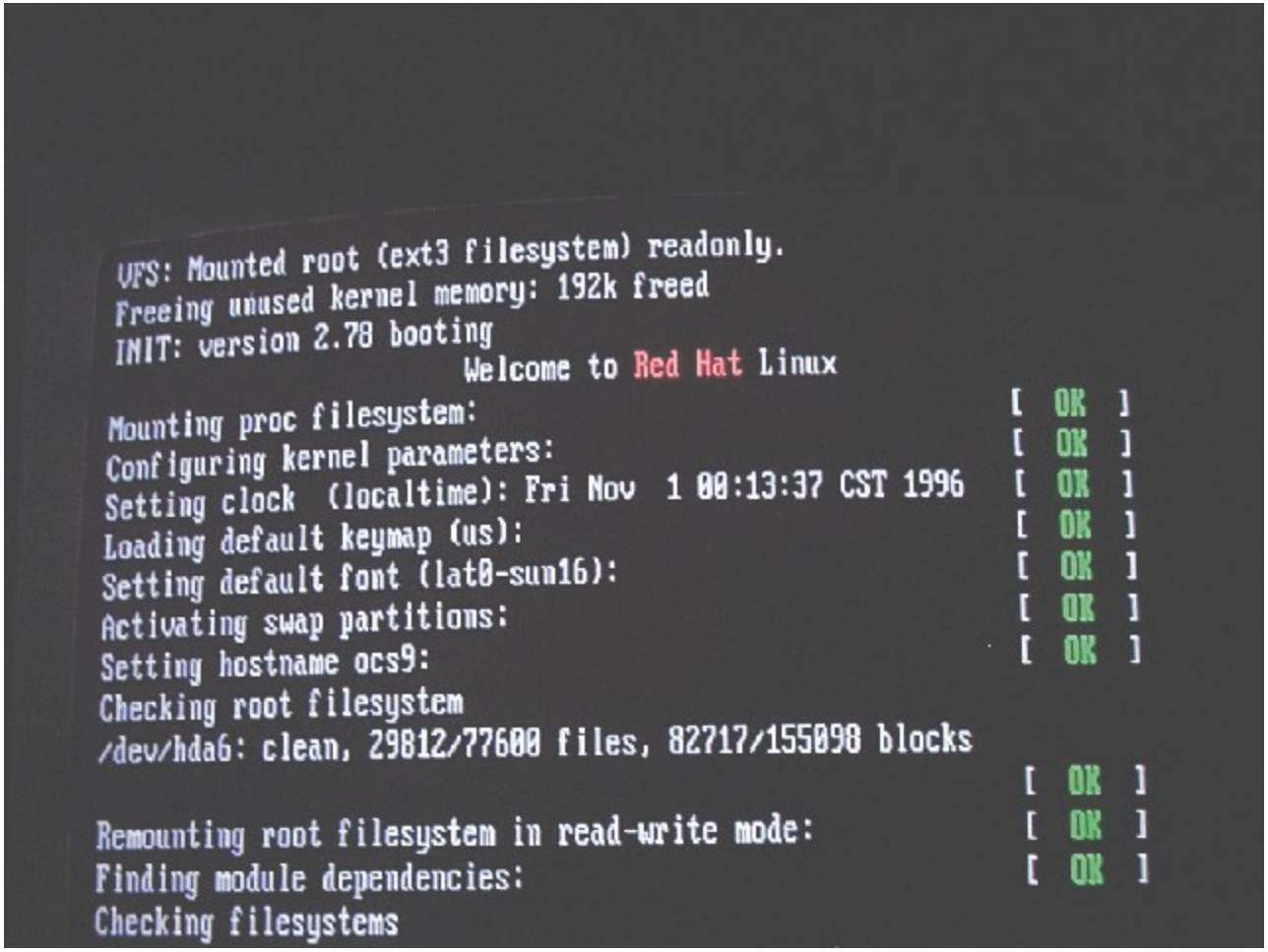
# Interfacing with the Radar System (Cont.)

- **ACCELERATOR KEYS**
  - **CONTROL KEY (Ctrl) AND LETTER KEY**
  - **ALT KEY AND LETTER KEY**

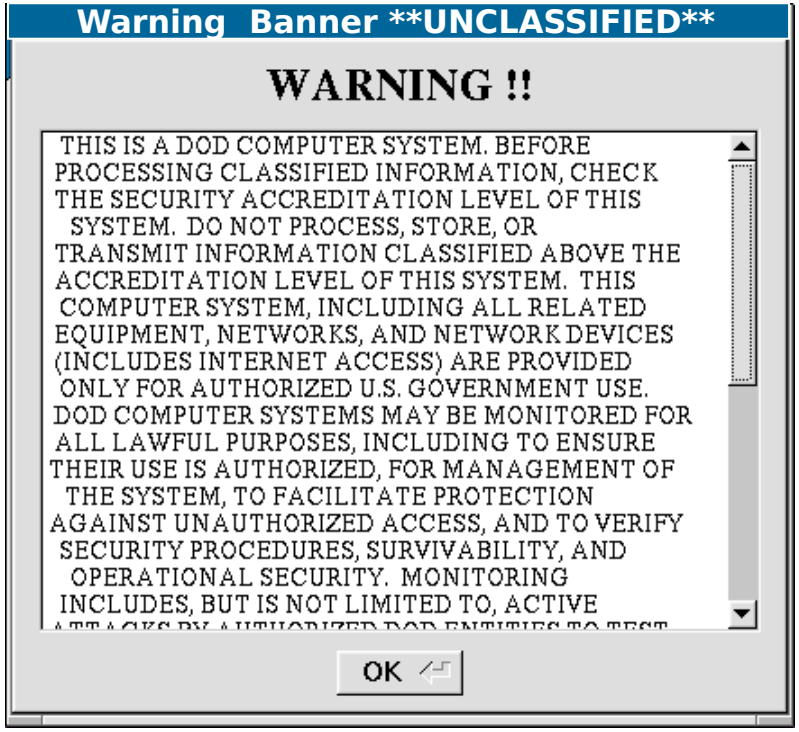
# Enabling Learning Objective 1

**Log In to the System.**

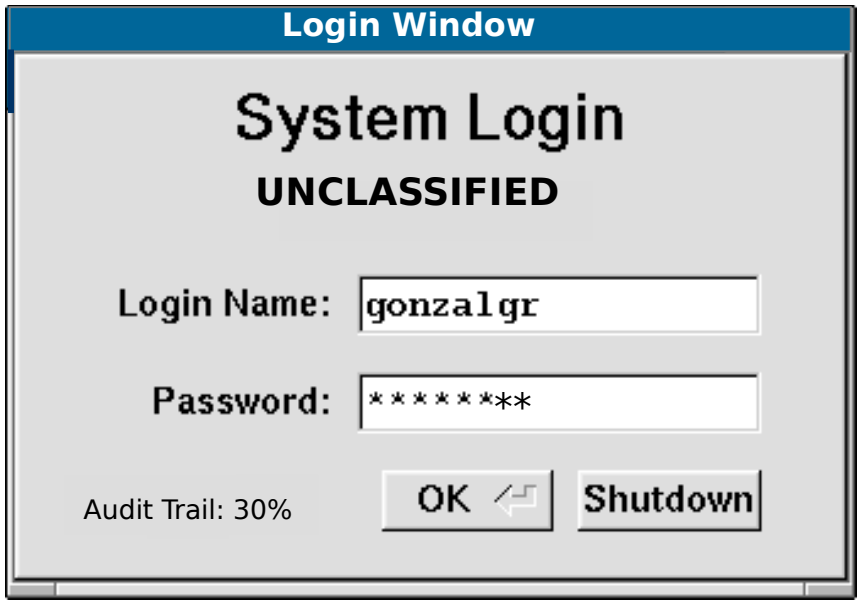
# New Operating System


VFS: Mounted root (ext3 filesystem) readonly.
Freeing unused kernel memory: 192k freed
INIT: version 2.78 booting
Welcome to Red Hat Linux
Mounting proc filesystem: [ OK ]
Configuring kernel parameters: [ OK ]
Setting clock (localtime): Fri Nov 1 00:13:37 CST 1996 [ OK ]
Loading default keymap (us): [ OK ]
Setting default font (lat0-sun16): [ OK ]
Activating swap partitions: [ OK ]
Setting hostname ocs9: [ OK ]
Checking root filesystem
/dev/hda6: clean, 29812/77600 files, 82717/155098 blocks
[ OK ]
Remounting root filesystem in read-write mode: [ OK ]
Finding module dependencies: [ OK ]
Checking filesystems

# DoD SECURITY BANNER


Warning Banner **UNCLASSIFIED**
WARNING !!
THIS IS A DOD COMPUTER SYSTEM. BEFORE PROCESSING CLASSIFIED INFORMATION, CHECK THE SECURITY ACCREDITATION LEVEL OF THIS SYSTEM. DO NOT PROCESS, STORE, OR TRANSMIT INFORMATION CLASSIFIED ABOVE THE ACCREDITATION LEVEL OF THIS SYSTEM. THIS COMPUTER SYSTEM, INCLUDING ALL RELATED EQUIPMENT, NETWORKS, AND NETWORK DEVICES (INCLUDES INTERNET ACCESS) ARE PROVIDED ONLY FOR AUTHORIZED U.S. GOVERNMENT USE. DOD COMPUTER SYSTEMS MAY BE MONITORED FOR ALL LAWFUL PURPOSES, INCLUDING TO ENSURE THEIR USE IS AUTHORIZED, FOR MANAGEMENT OF THE SYSTEM, TO FACILITATE PROTECTION AGAINST UNAUTHORIZED ACCESS, AND TO VERIFY SECURITY PROCEDURES, SURVIVABILITY, AND OPERATIONAL SECURITY. MONITORING INCLUDES, BUT IS NOT LIMITED TO, ACTIVE
OK

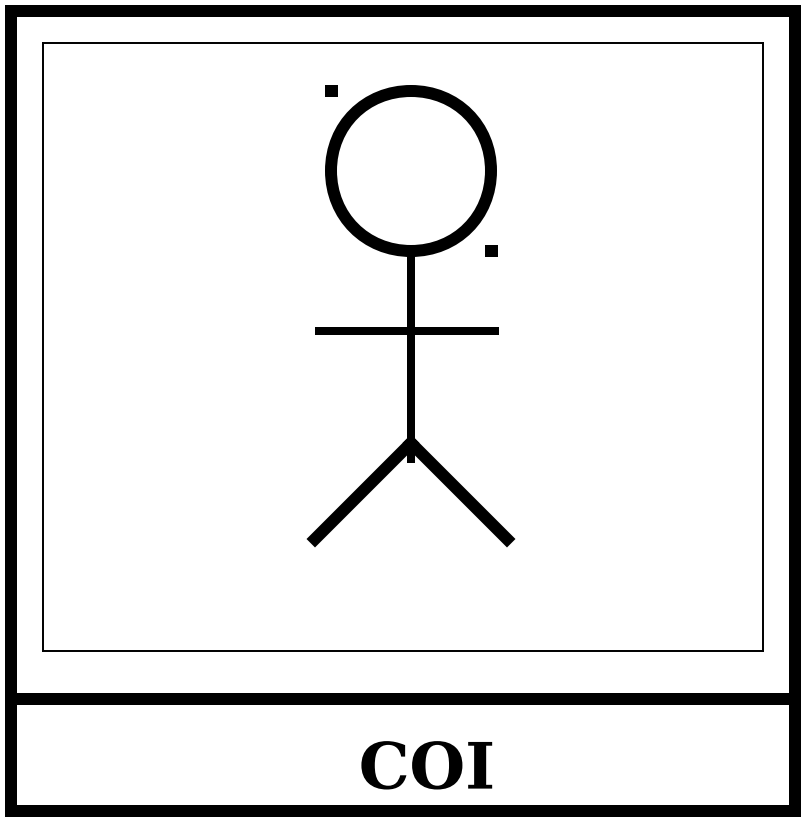
# SYSTEM LOGIN SCREEN



# Enabling Learning Objective 2

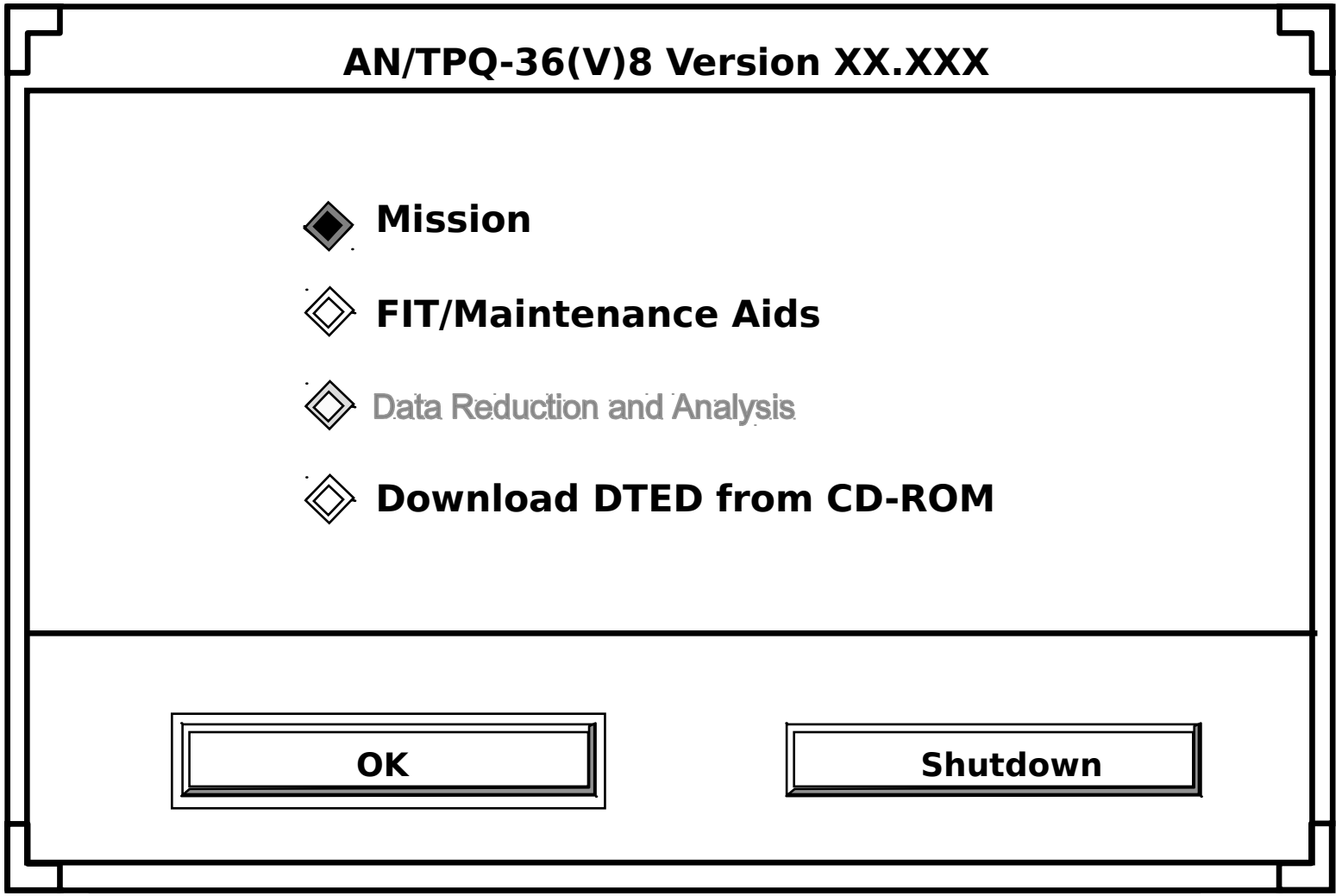
**Identify the COI icon.**

# COI ICON

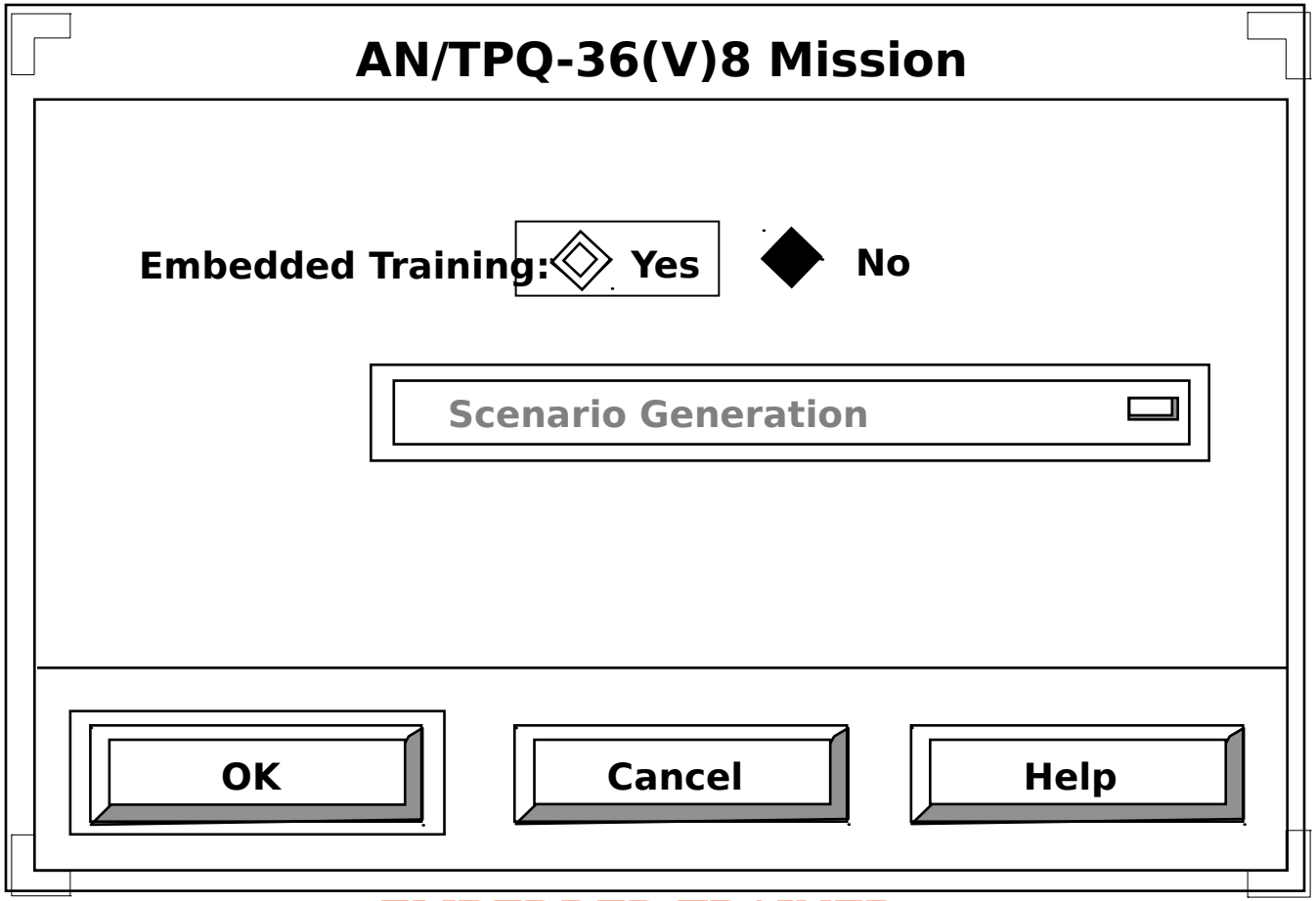



- **Appears in lower right corner of display after Mission option is selected on the AN/TPQ-36(V)8 Version screen.**
- **Indicates successful COI load. NOTE: If load is unsuccessful,**

# Begin Initialization



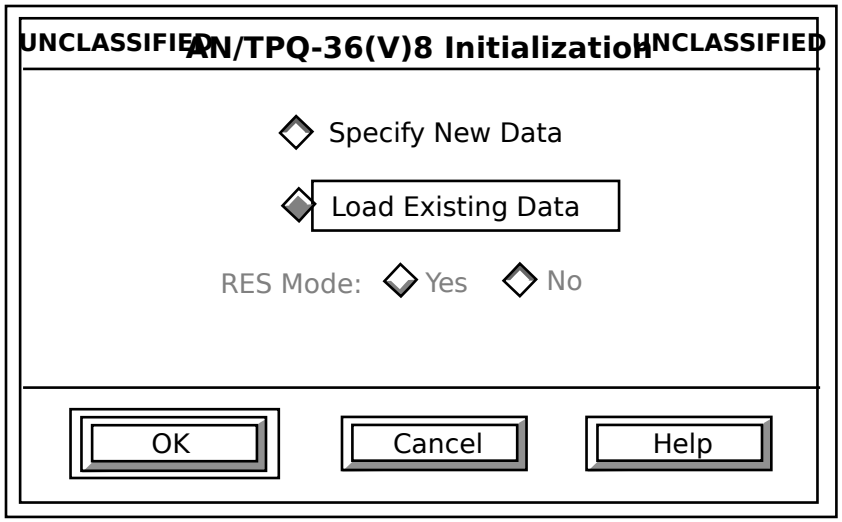
# Mission Menu




**EMBEDDED TRAINER**

**A realistic operating scenario to evaluate and improve operator proficiency**

# Classified/Yes Option /load data



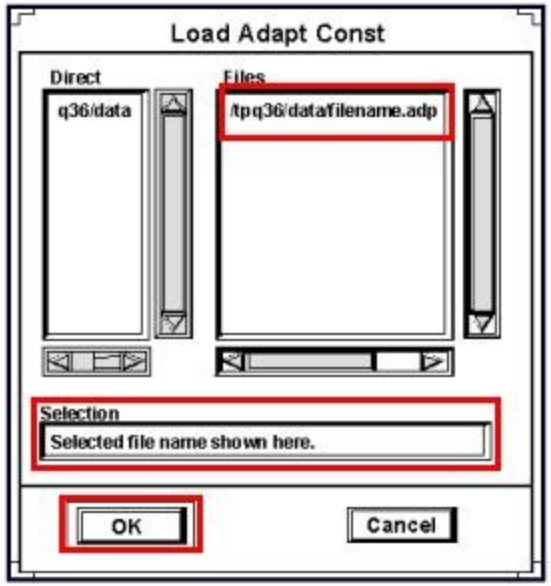

- **Classification set by system administrator.**
- **Classification labeled on most screen titles.**
- **Classification printed on all print jobs.**

# LOAD INITIALIZATION DATA

**-- First, click on the file you want to use.**

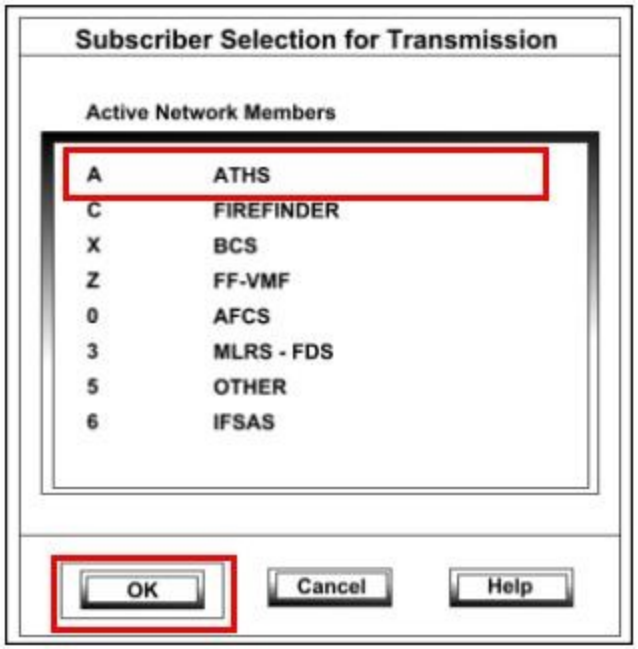
**-- The file name appears.**

**-- Select OK.**



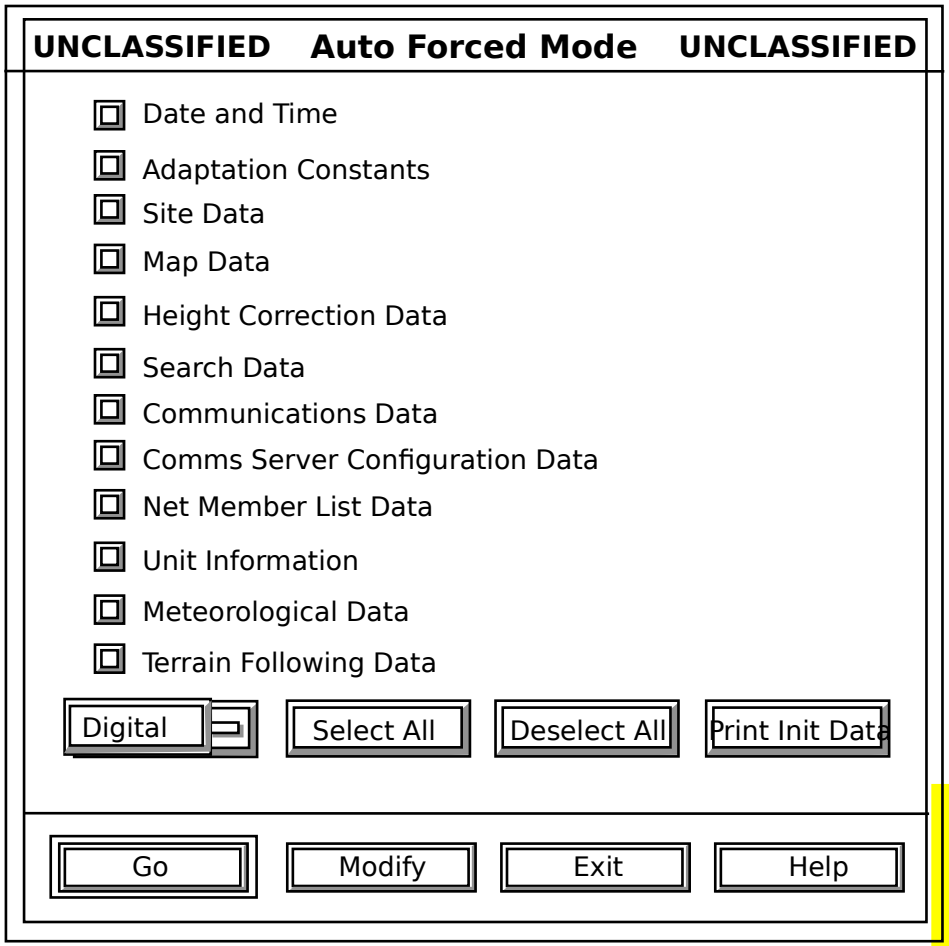
# LOAD INITIALIZATION DATA

**Select the subscriber you want,**




**then click OK**

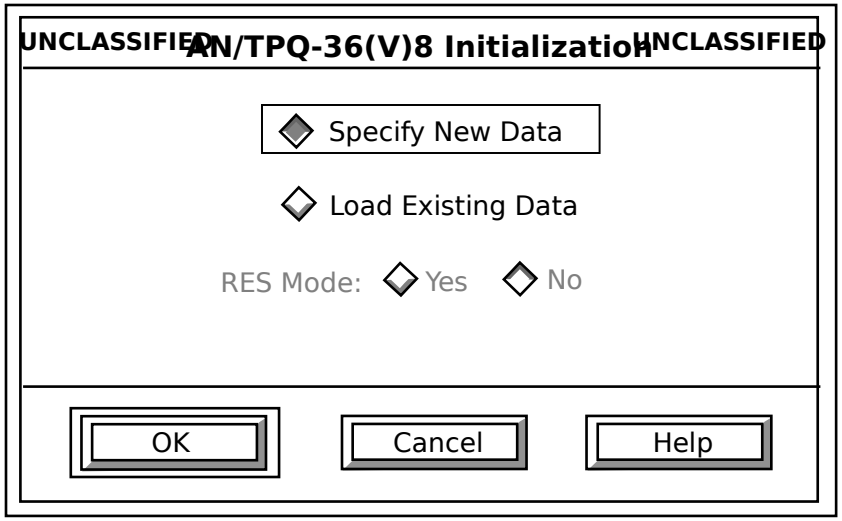
# Auto Forced Mode




- **The Auto Forced Mode Screen allows you to review and or modify the initialization data.**
- **When you get to this screen during your initialization, any entries entered in error may be corrected.**
- **By selecting the screen to be checked, you can verify the correct data has been entered, and make any necessary corrections.**
- **Team Leader needs to verify the correct data has been entered.**

**Note: the selections under Terrain Following Data are grayed out, and can't be changed until Terrain Following data is**

# New data


UNCLASSIFIED
AN/TPQ-36(V)8 Initialization
UNCLASSIFIED
Specify New Data
Load Existing Data
RES Mode:
Yes
No
OK
Cancel
Help

3.12 INITIALIZATION DATA WORKSHEET:

Site Name

Or Designator:_____ Date:_____

Radar Serial No:_____ Name of Preparer:_____

Radar Unit Designation:_____

**INTIALIZATION WORKSHEET**

**DATE AND TIME**

1. Date, current _____

2. Time, from SINGARS or current _____

3. Time Zone _____

4. Daylight Savings Time (DST) Correction _____

**SITE DATA**

1. Grid Zone, 01 to 60 and C to X, except I and O _____

2. Standard or east of standard _____

3. Site Easting, 165,000 to 835,000 meters UTM _____

4. Site Northing, 0 to 9,999,999 meters UTM _____

5. Site Altitude, -400 to 8,850 meters or -1,314 to 29,037 feet _____

6. Site to Far Stake Distance, 100 to 9,999 meters _____

7. Azimuth to Far Stake, 0.0 to 6,399.9 mils _____

8. Vertical Angle, -500 to +500 mils _____

9. Datum _____

**METEOROLOGICAL DATA**

1. Wind Speed, 0 to 300 knots _____

2. Wind Direction, 0 to 6,399 mils _____

3. Desired line of MET from MET;TA _____

Site Name
Or Designator:_____ Date:_____
Radar Serial No:_____ Name of Preparer:_____
Radar Unit Designation:_____

**INTIALIZATION WORKSHEET – continue**

**PAPER MAP DATA**

1. Map Scale, 1:50,000/1:100,000/1:150.000 _____

2. Upper Left Easting, 165,000 to 835,000 meters UTM _____

3. Upper Left Northing, 0 to 9,999,999 meters UTM _____

4. Lower Right Easting, 165,000 to 835,000 meters UTM _____

5. Lower Right Northing, 0 to 9,999,999 meters UTM _____

**HEIGHT CORRECTION DATA**

1. Height Correction Type, Automatic or Manual _____

2. High Datum Plane, -1,400 to 9,859 meters _____

3. Low Datum Plane, -1,400 to 9,859 meters
or -4,493 to 32,319 feet _____

**SEARCH DATA**

1. Antenna Azimuth, 0 to 6,399 mils _____

2. Frequency Limits, See table 3-1 _____

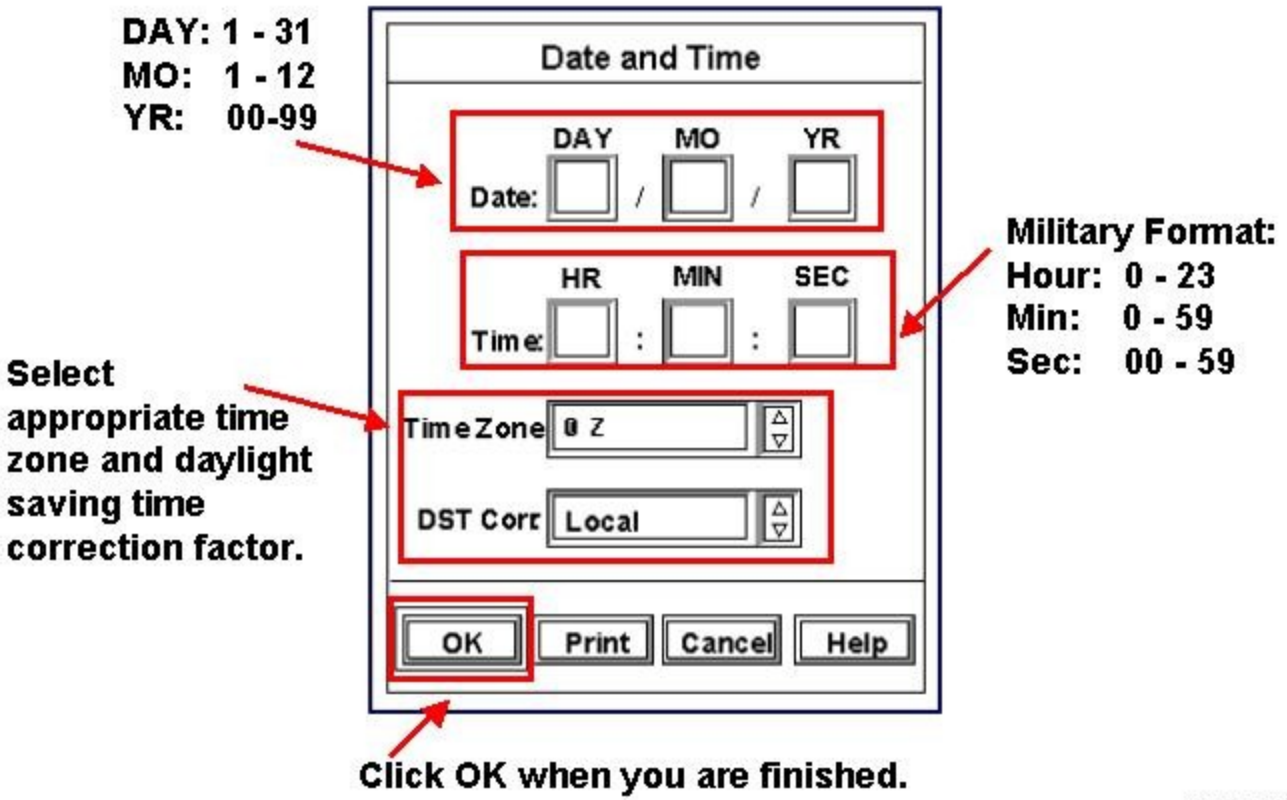
3. Left Sector Edge, -800 to +570 mils _____

4. Right Sector Edge, -570 to +800 mils _____

5. Maximum Range, 1,650 to 24,000 meters _____

6. Minimum Range, 750 to 23,000 meters _____

# LOAD INITIALIZATION DATA




AR56VF-5

# Time

**Identify Critical Time Factors on a 188-220A/188-220B network protocol.**

# Time Factors on 188-220A/188-220B Network Protocols

- **Time entered in software must be within 3-4 minutes of time entered in AFATDS software. Otherwise, messages may be thrown out.**

| Example: | AFATDS | Radar |
|---|---|---|
| Time entered: | 1300 | 1300 |
| Time zone: | +6S | Z |
| DST: | None | None |

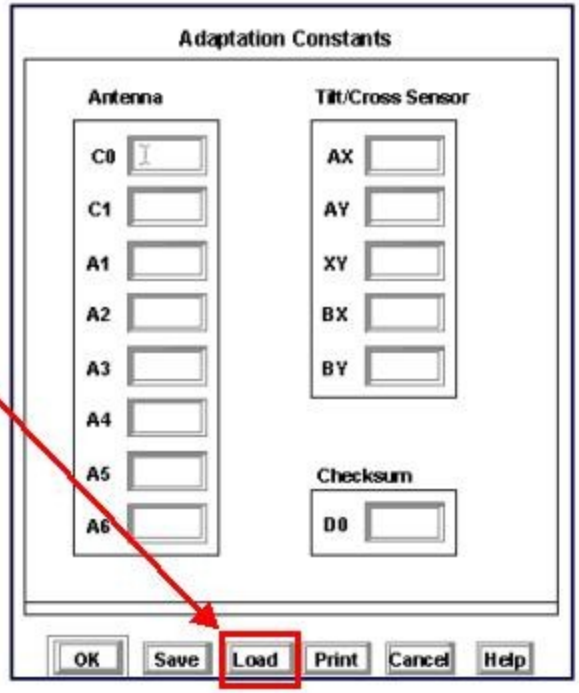
# Time Factors on a 188-220A/188-220B Net - cont.

- When transmitting to any subscriber, time entered in FIREFINDER software cannot be more than 1 hour behind time entered in subscriber's software. Otherwise, messages will perish.

| Example: | Radar | IFSAS |
|---|---|---|
| Time entered: | 1300 | 1410 |
| Time zone: | +6S | +6S |
| DST: | None | |

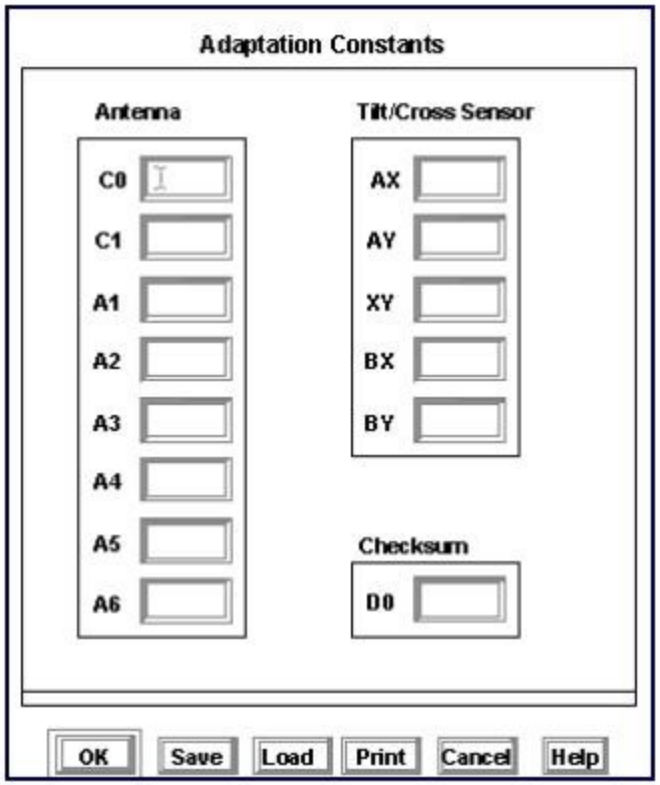
# LOAD INITIALIZATION DATA

**To load from the hard drive, click LOAD button**

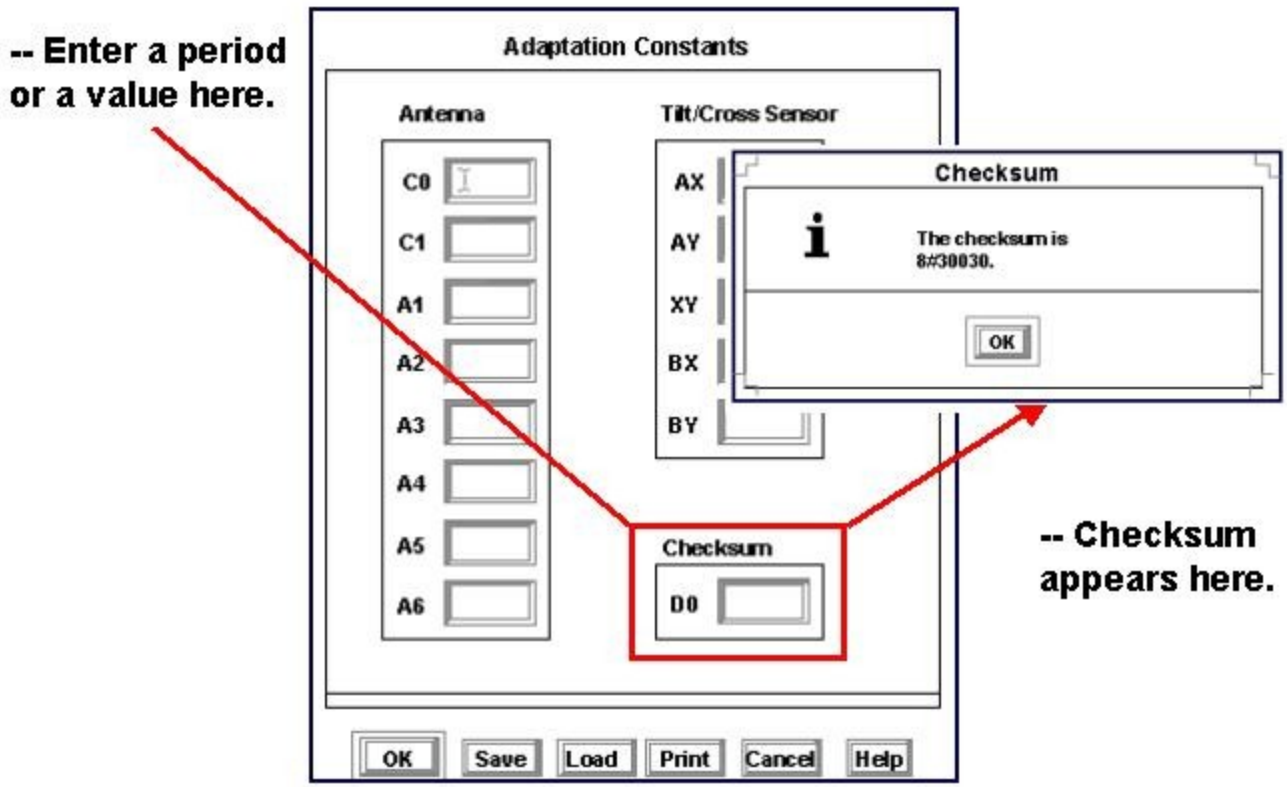


# LOAD INITIALIZATION DATA

**Information comes from Site Data portion of your worksheet.**



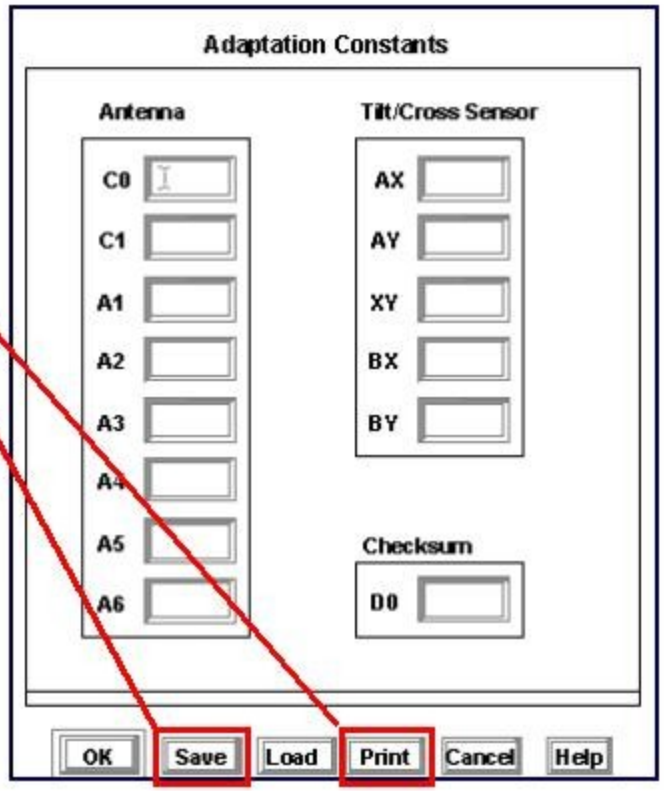
# LOAD INITIALIZATION DATA




AR56VF-9

# LOAD INITIALIZATION DATA

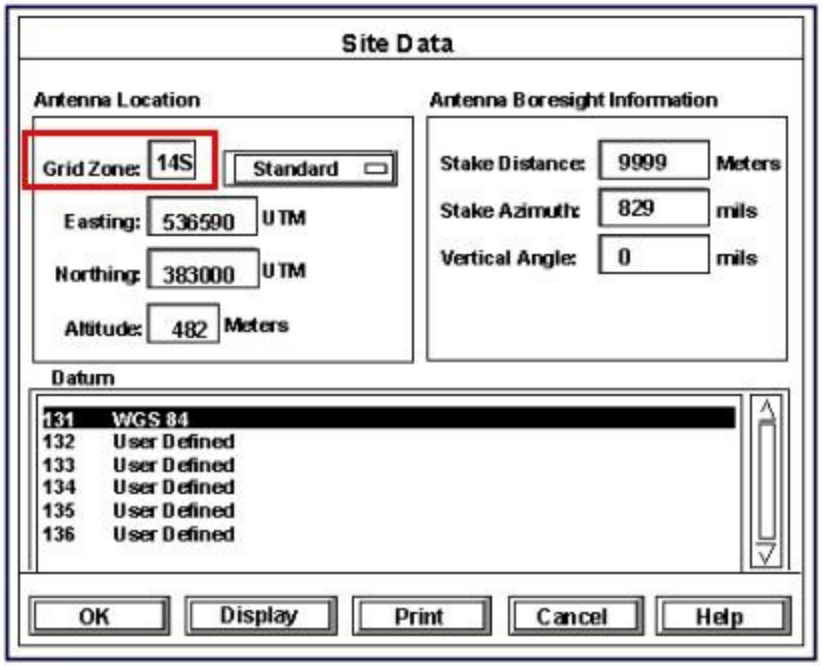
**-- Click here to print and/or save constants.**




AR56VF-10

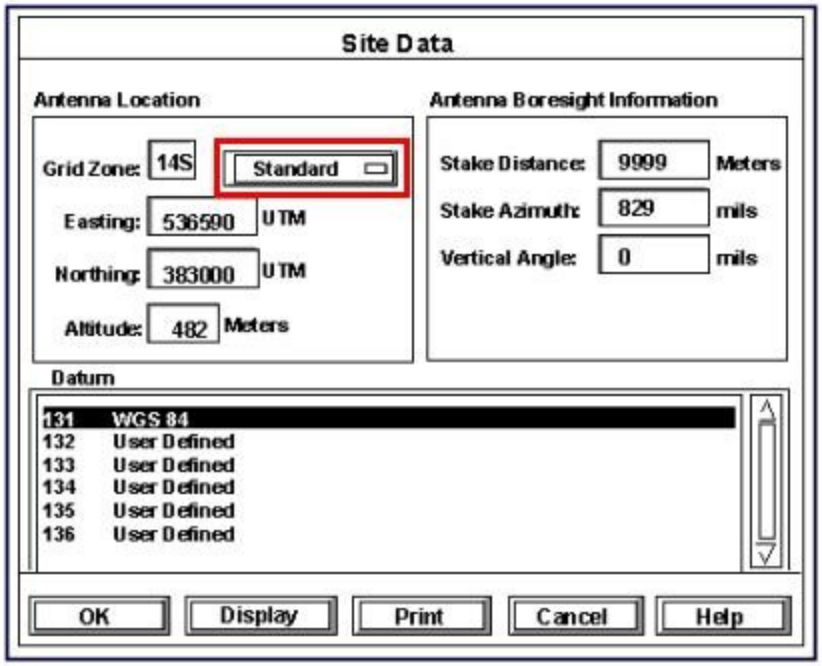
# LOAD INITIALIZATION DATA

**-- First, enter the 3-character grid zone designator.**



# LOAD INITIALIZATION DATA

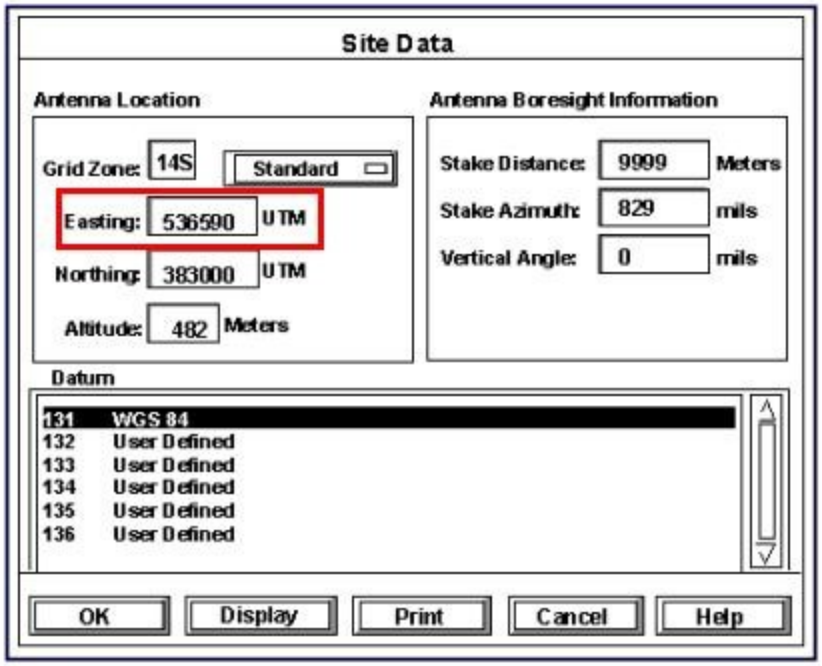
**-- Select Standard or East of Standard Option.**




AR56VF-13

# LOAD INITIALIZATION DATA

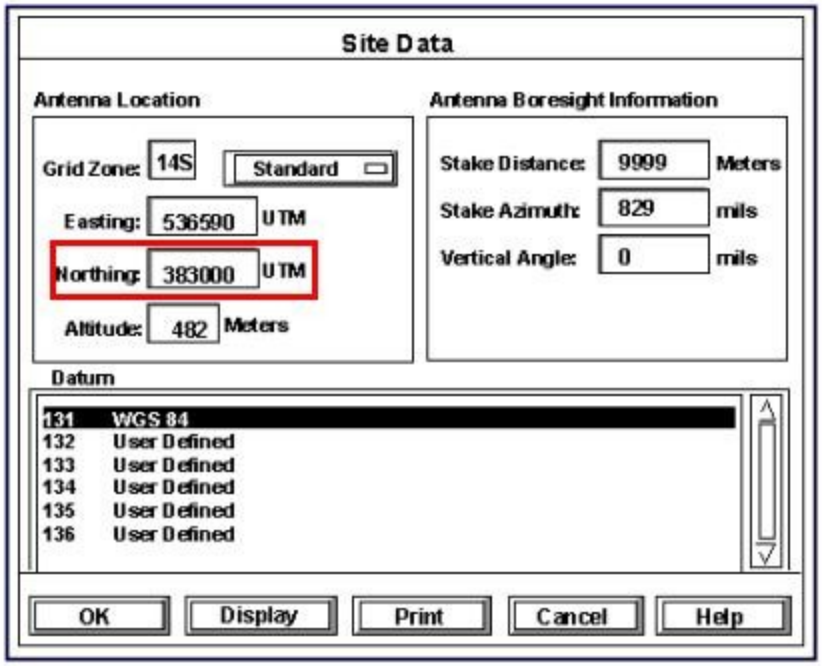
**-- Enter six-digit UTM easting coordinate (165,000 - 835,000 meters).**




AR56VF-14

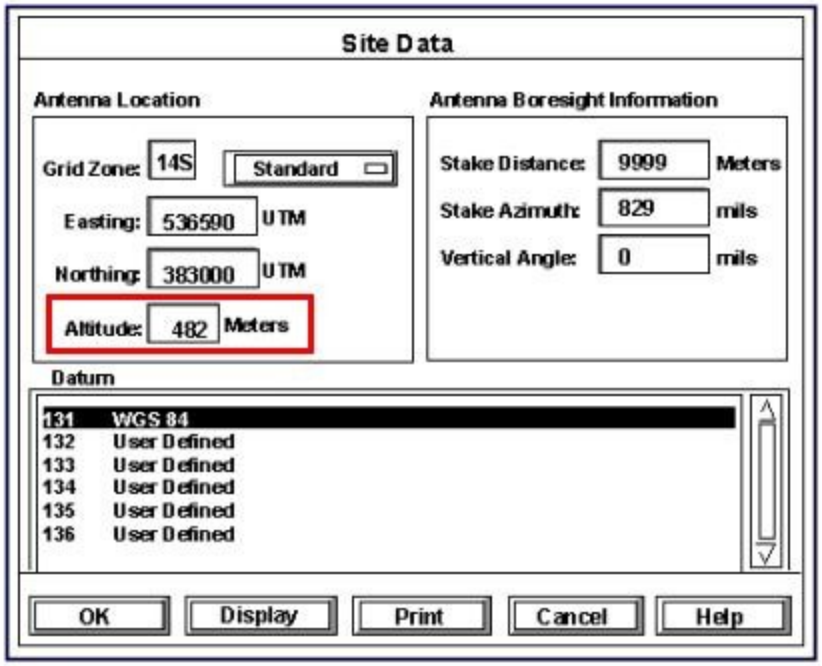
# LOAD INITIALIZATION DATA

**-- Enter seven-digit UTM northing coordinate (0 - 9,999,999 meters).**



# LOAD INITIALIZATION DATA

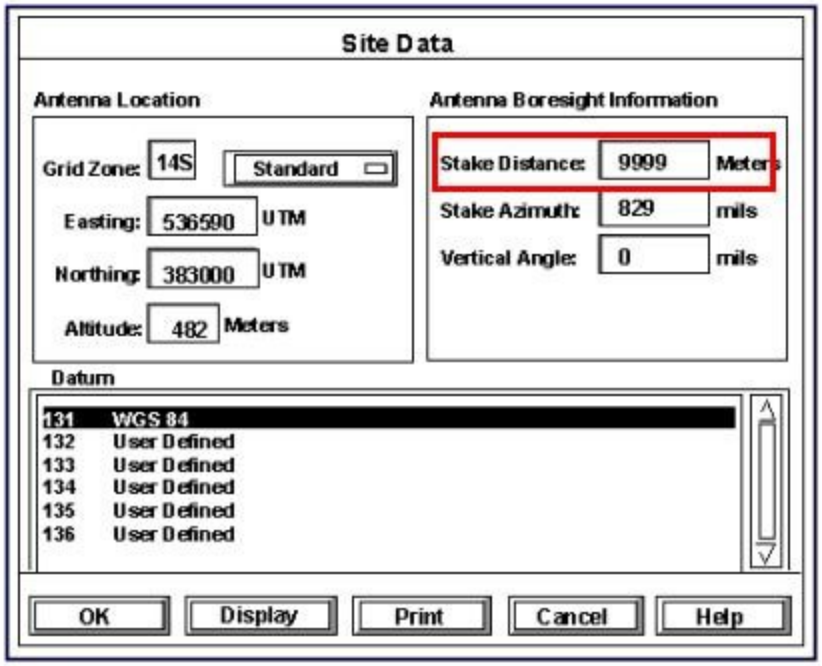
**-- Enter altitude (-400 - 8,850 meters).**




AR56VF-16

# LOAD INITIALIZATION DATA

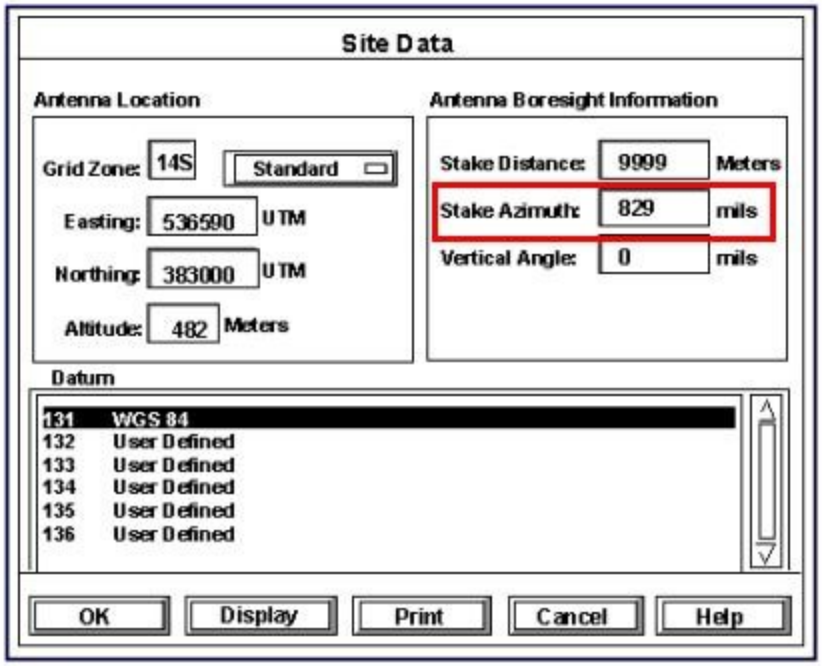
**-- Enter length from near stake to far stake. (100 - 9,999 meters)**




AR56VF-17

# LOAD INITIALIZATION DATA

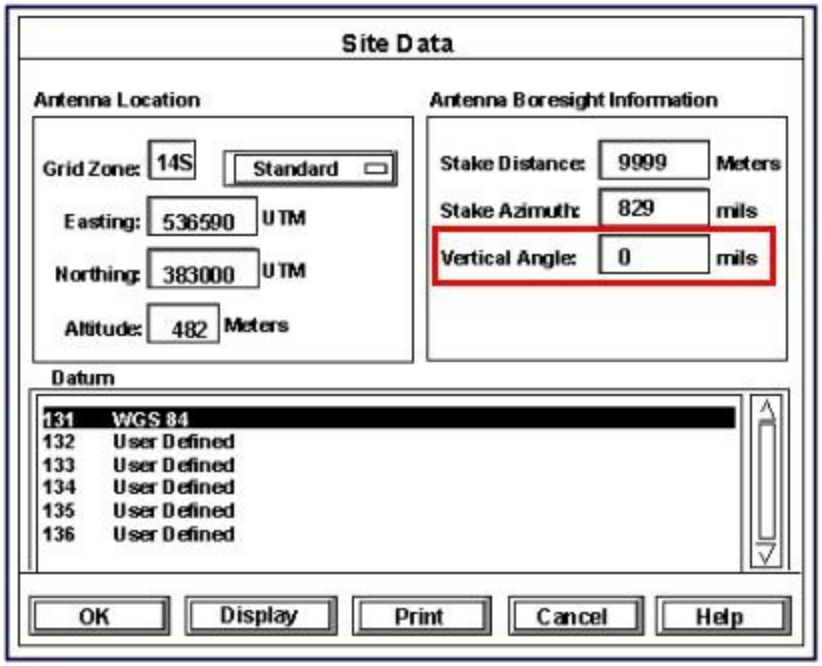
**-- Enter length from near stake to far stake. (0 - 6,400 mils)**




AR56VF-18

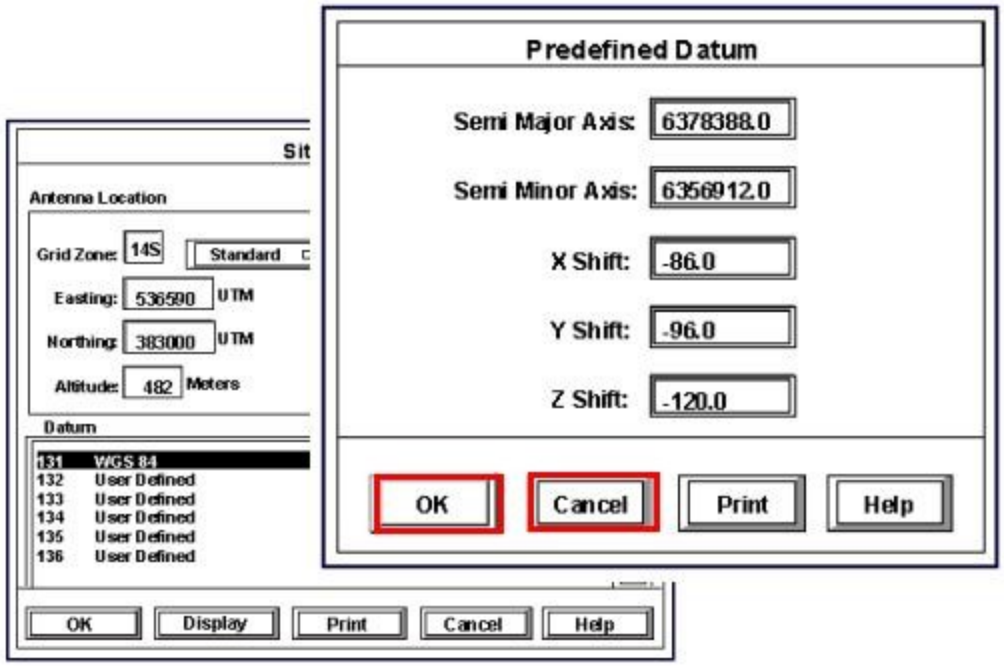
# LOAD INITIALIZATION DATA

**-- Enter angle from near stake to far stake. (-500 to 500 mils)**



# LOAD INITIALIZATION DATA

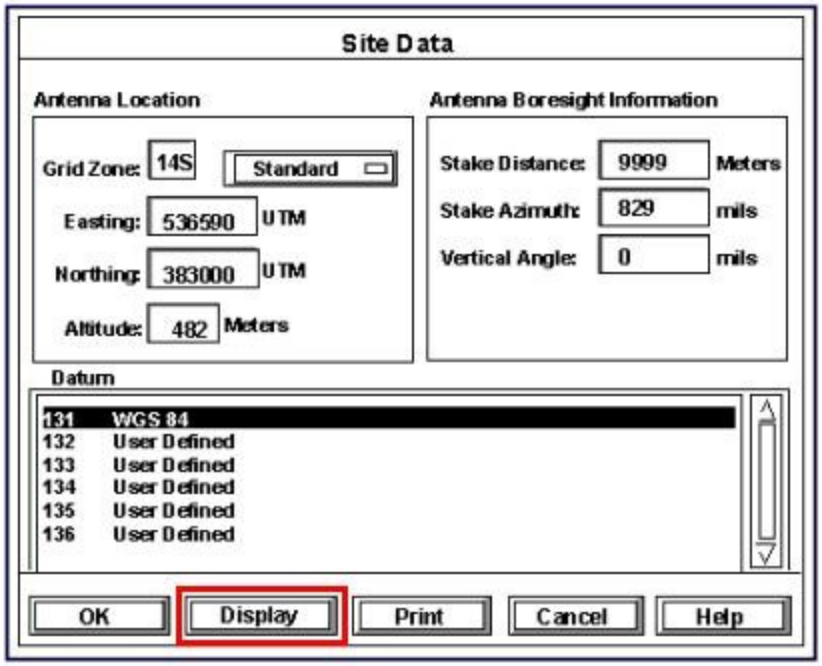
**-- Click Cancel and Site Data screen will reappear. Click OK and Map Registration screen will appear.**



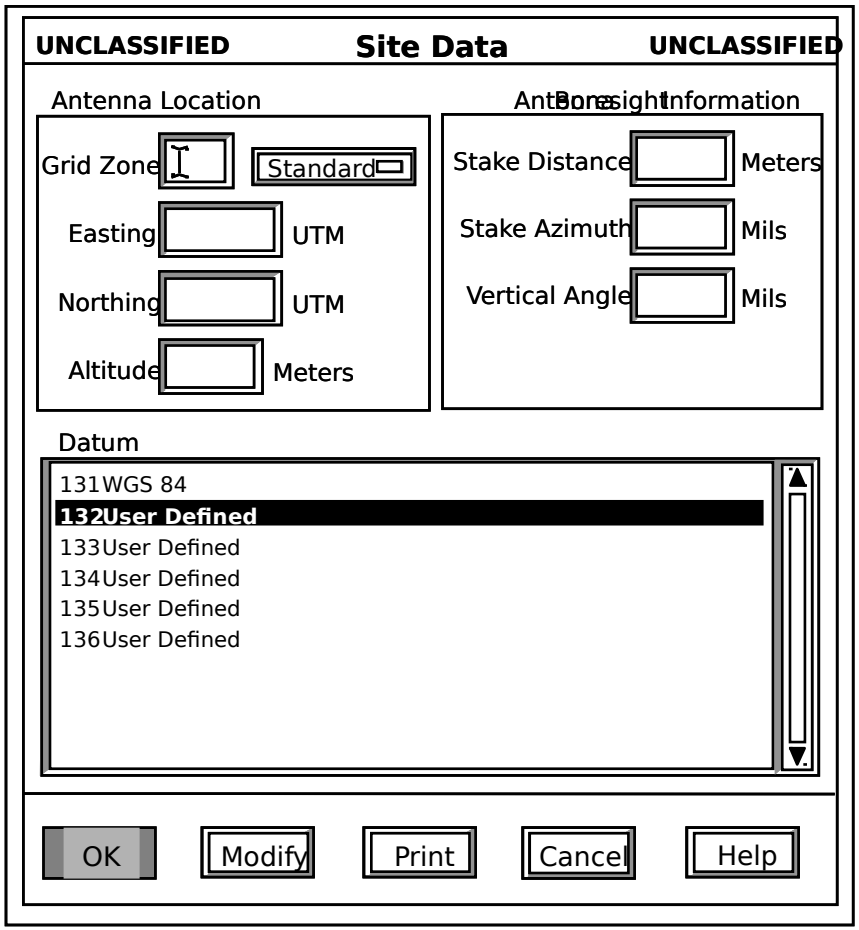

AR56VF-21

# LOAD INITIALIZATION DATA

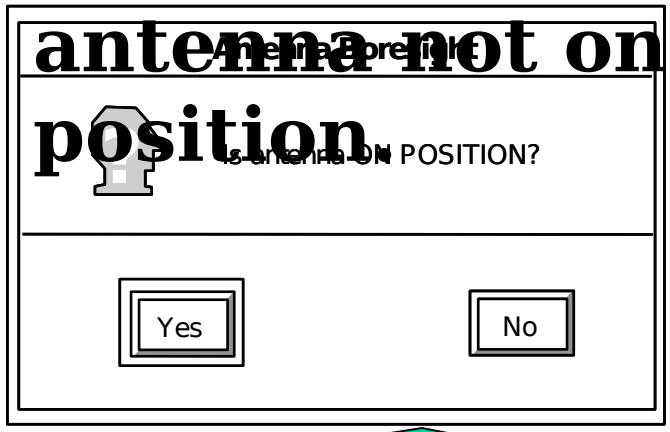
**-- Click Display to view pre-defined data.**




AR56VF-20

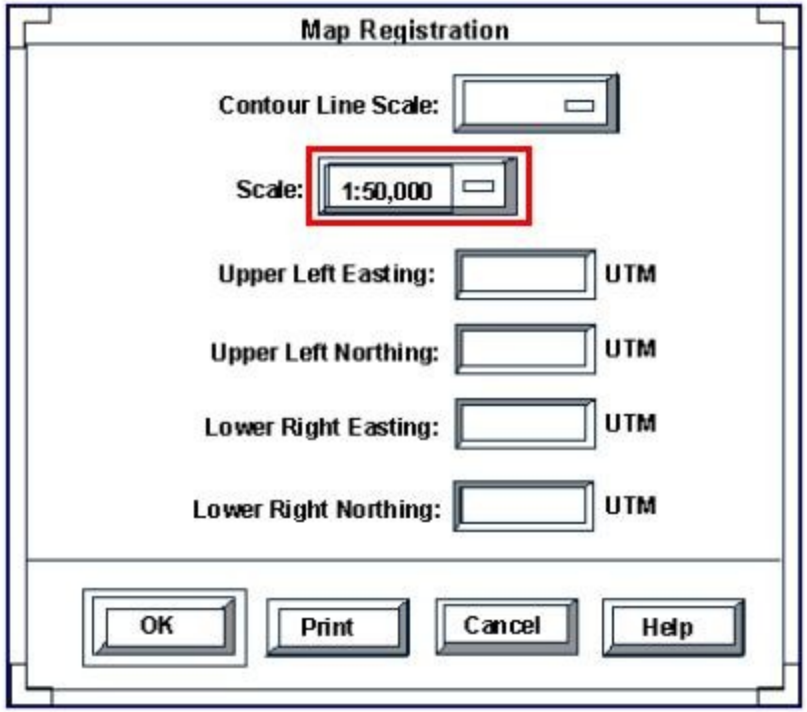



- **Once OK selected, prompt appears.**
- **Select Yes if antenna is on position.**
- **Select No if antenna not on position.**



# LOAD INITIALIZATION DATA

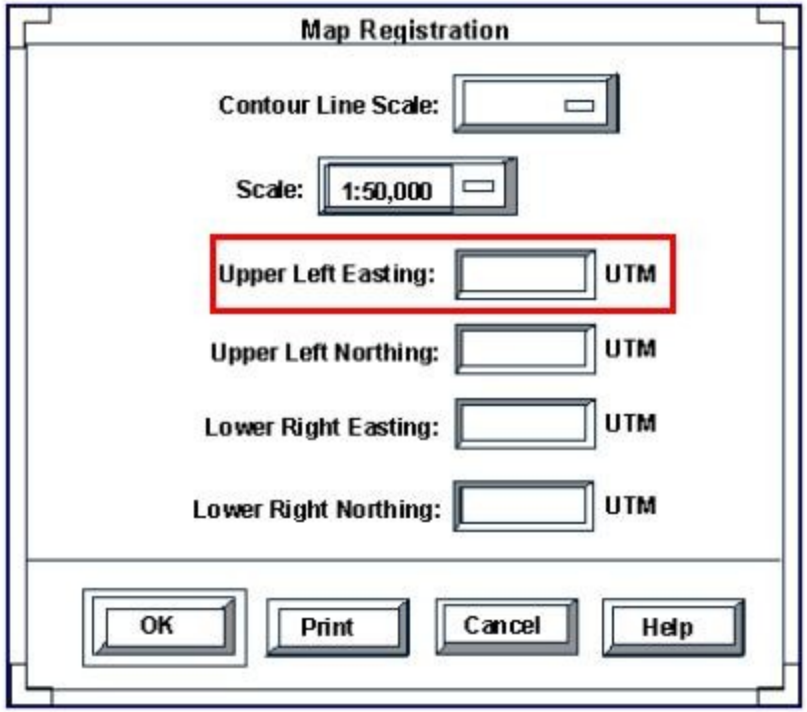
**-- Select from 1:50,000, 1:100,000, or 1:150,000.**




AR56VF-22

# LOAD INITIALIZATION DATA

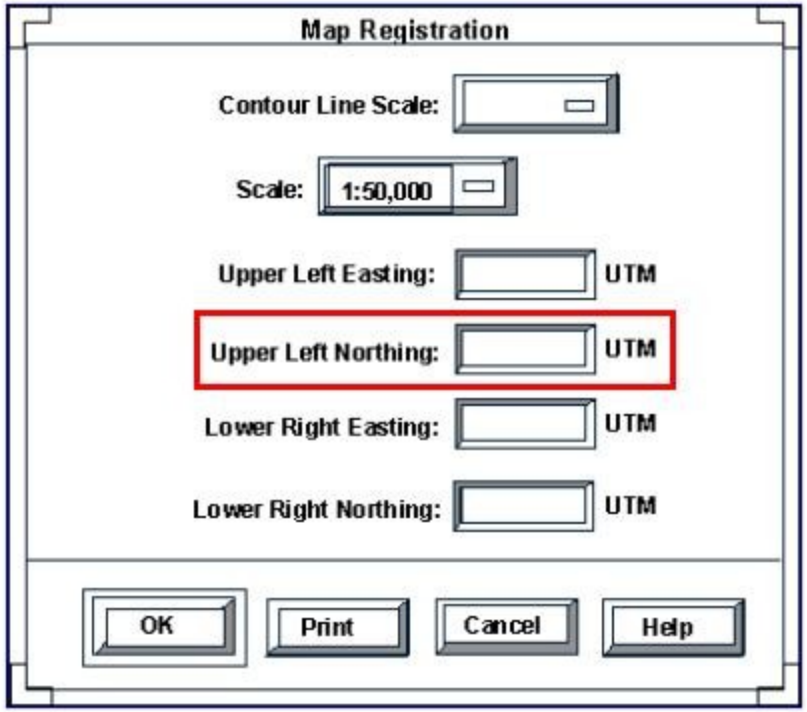
**-- Enter easting coordinate for upper left map registration point (165,000 - 835,000).**




AR56VF-23

# LOAD INITIALIZATION DATA

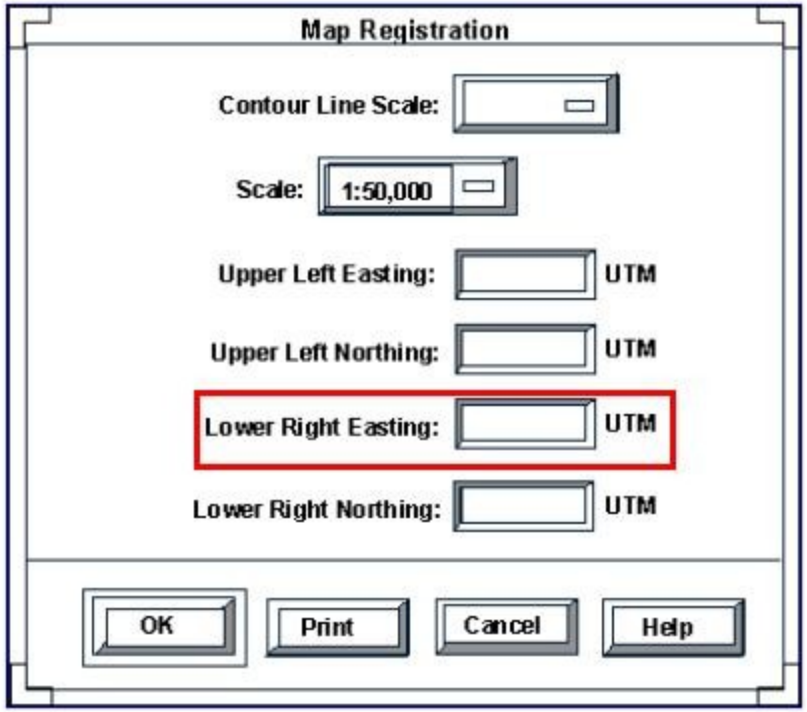
**-- Enter northing coordinate for upper left map registration point (Legal limit depends on grid zone).**




AR56VF-24

# LOAD INITIALIZATION DATA

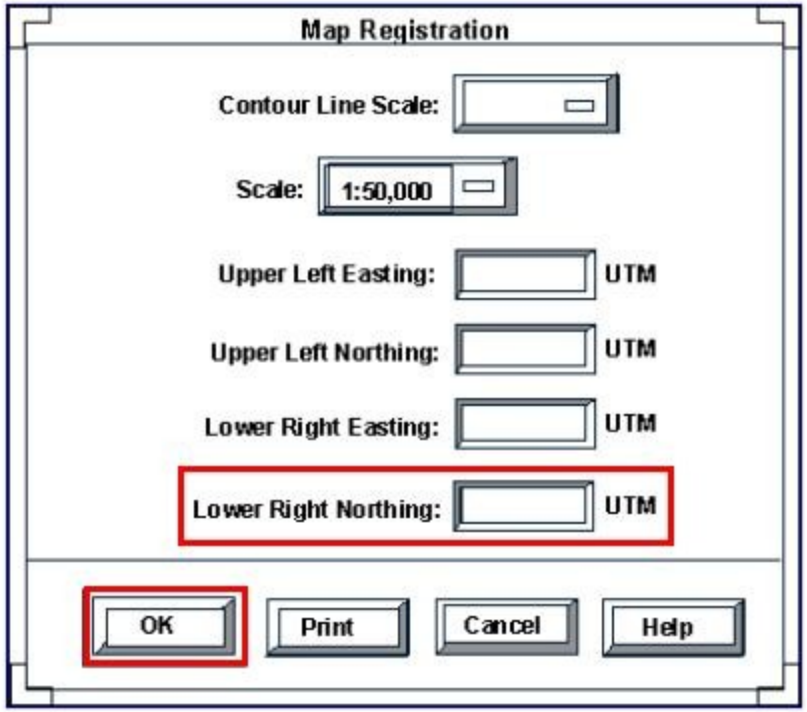
**-- Enter easting coordinate for lower left map registration point (165,000 - 835,000 meters).**




AR56VF-25

# LOAD INITIALIZATION DATA

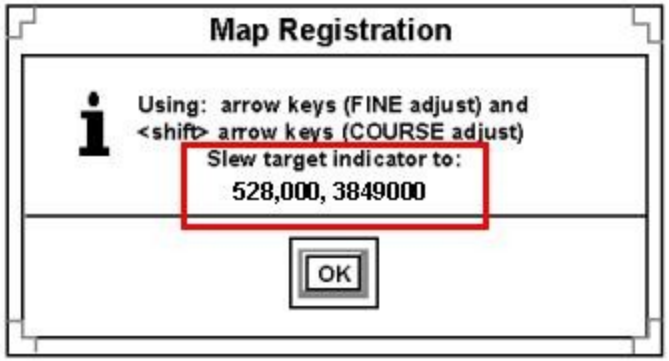
**-- Enter northing coordinate for lower left map registration point (0 - 9,999,999 meters). Click OK.**




AR56VF-26

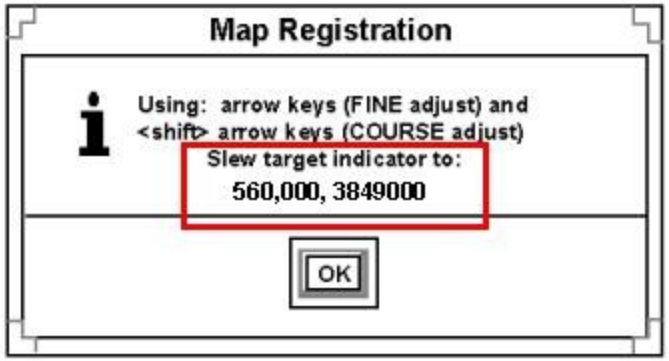
# LOAD INITIALIZATION DATA

**-- Target indicator slews to upper left registration point. Move indicator light to registration point indicated, then press Return key on the keyboard or click OK on the screen.**



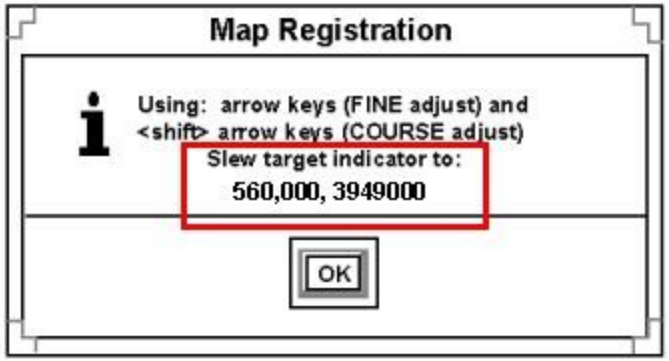
# LOAD INITIALIZATION DATA

**-- Target indicator moves to lower right registration point. Move indicator light to registration point indicated, then press Return key on the keyboard or click OK on the screen.**



# LOAD INITIALIZATION DATA

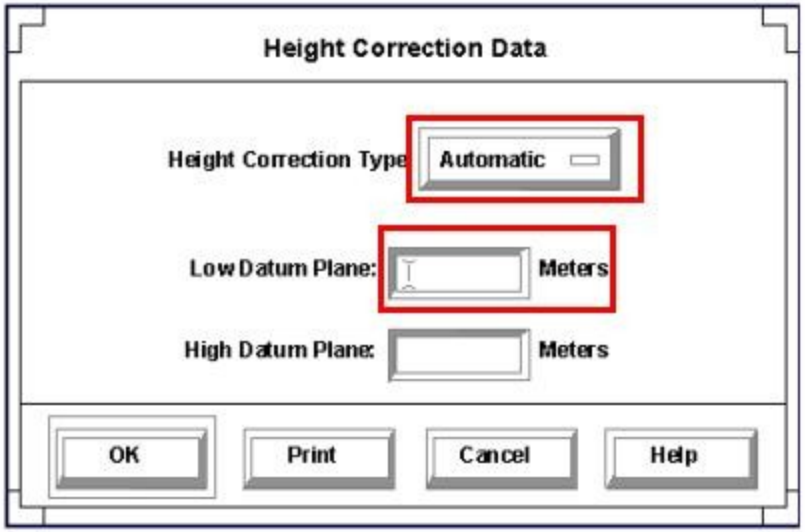
**-- Target indicator moves to upper right registration point. Move indicator light to registration point indicated, then press Return key on the keyboard or click OK on the screen.**



# LOAD INITIALIZATION DATA

**-- Select the desired option.**

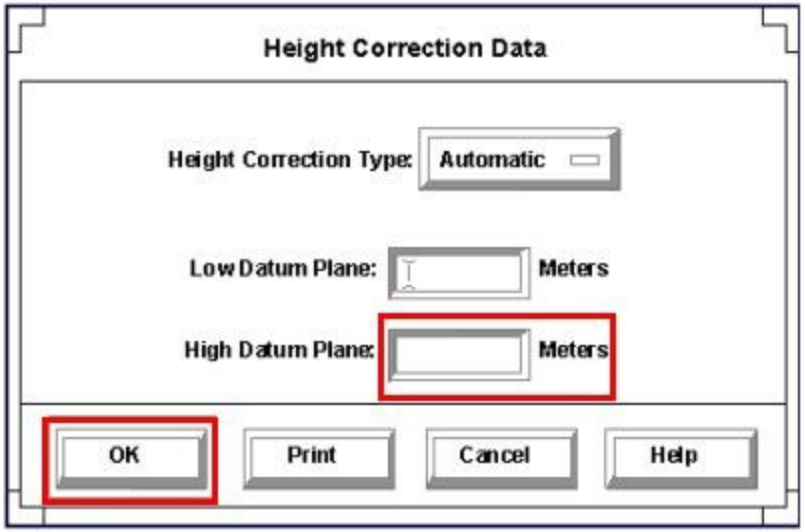
**-- Input low datum plane elevation**



# LOAD INITIALIZATION DATA

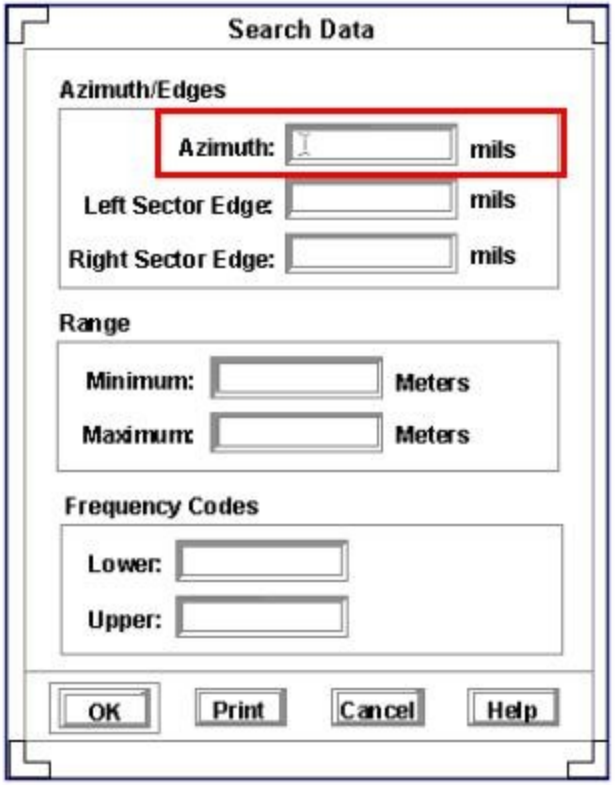
**-- Input high datum plan elevation**

**-- Click OK when you are finished**



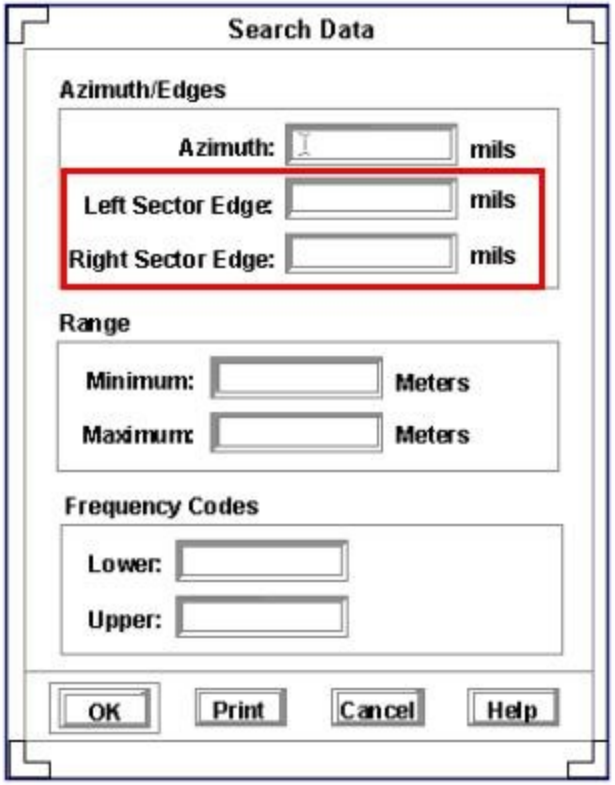
# LOAD INITIALIZATION DATA

**-- Enter the number representing the center of the sector azimuth (0 - 6,399).**



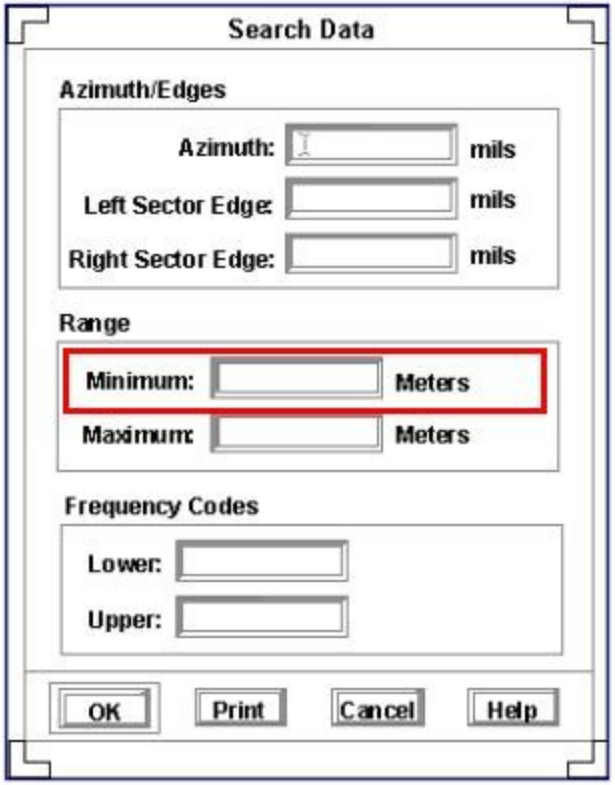
# LOAD INITIALIZATION DATA

**-- Enter the left sector edge (-800 - 570 mils) and right sector edge (-570 - 800 mils).**



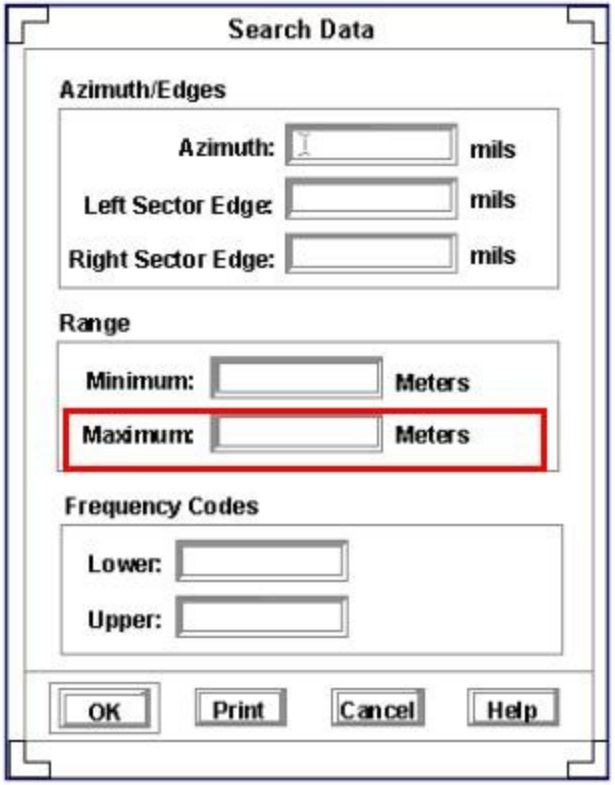
# LOAD INITIALIZATION DATA

**-- Enter the distance from the radar to the beginning edge of the search sector (750 - 23,000 meters).**

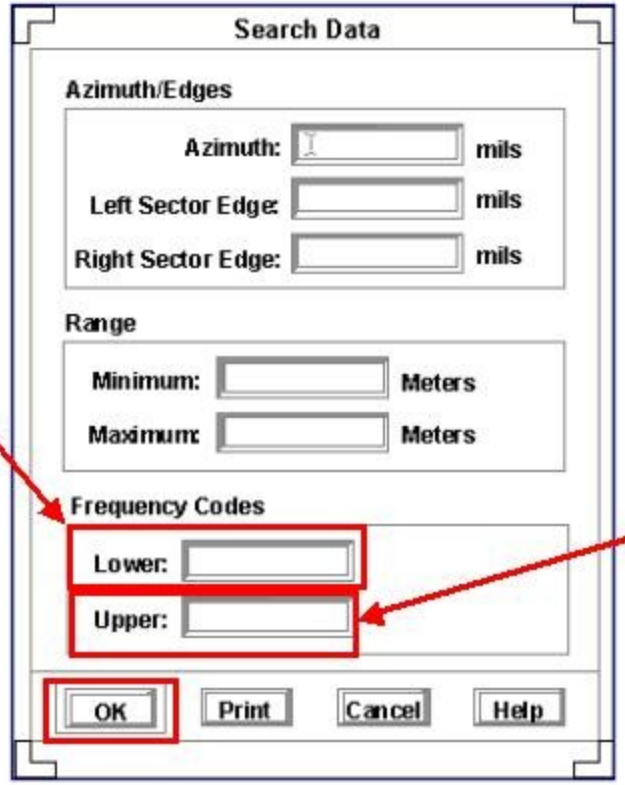


# LOAD INITIALIZATION DATA

**-- Enter the distance to the leading edge of the search sector (1,650 - 24,000 meters).**



# LOAD INITIALIZATION DATA




**-- Enter the lower end of the frequency block (0 - 22) here.**

**-- Enter the upper end of the frequency block (9 -32) here.**

**-- Click OK when you are finished.**

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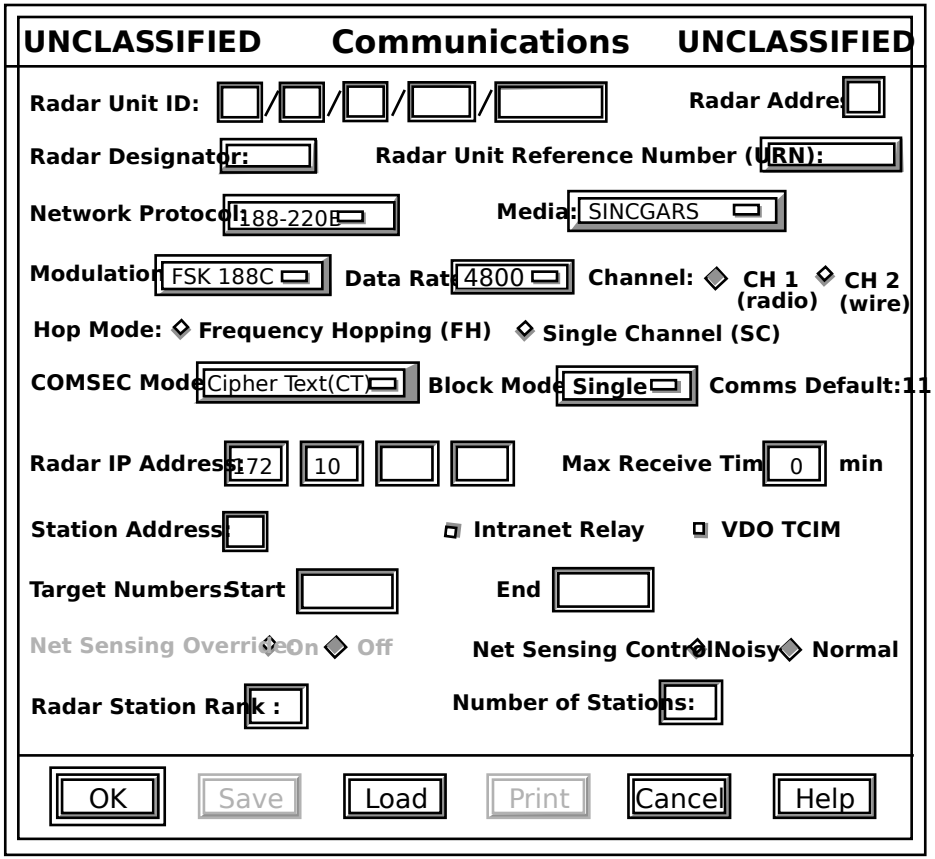
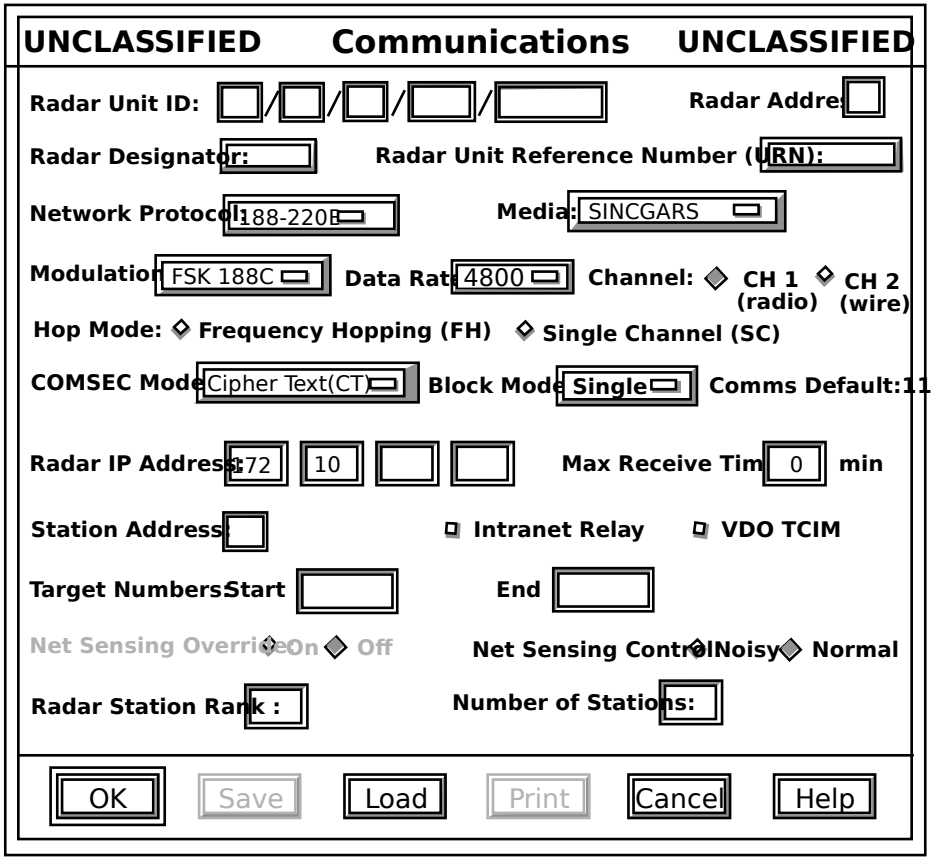
# COMM DATA FIELDS



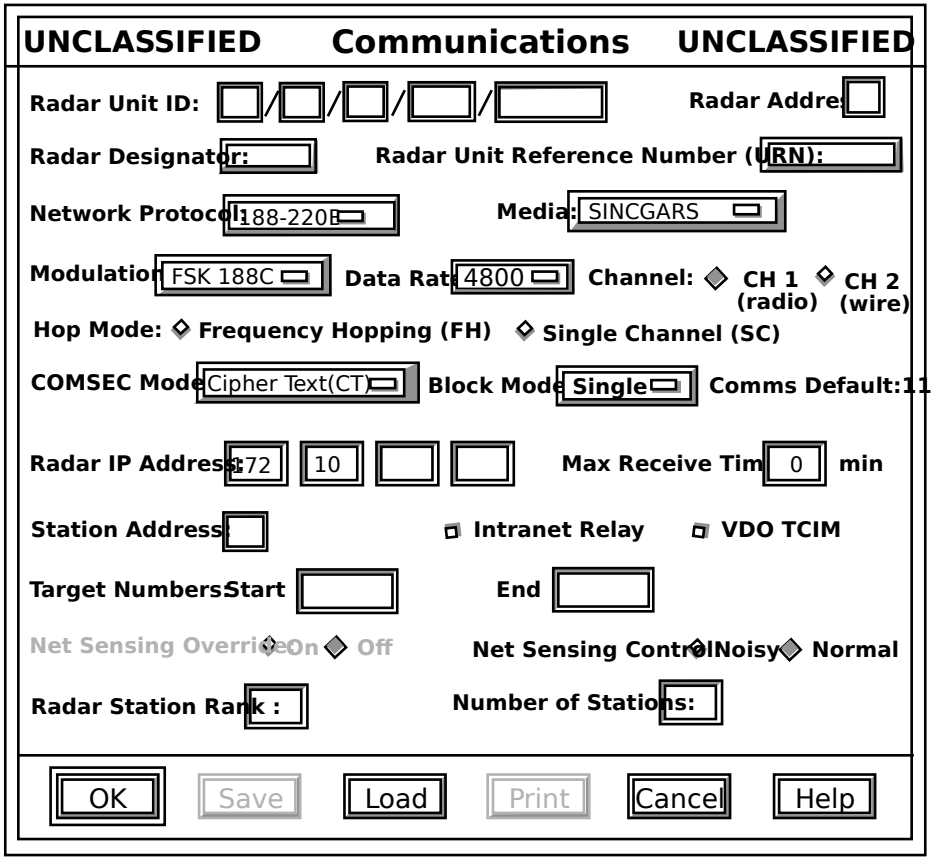

- **Radar Unit ID: Sub-fields added.**
- **Radar URN: Legal range has changed from 0 thru 16,277,215 to 0 thru 16,277,214**
- **Media: SINCGARS/ ICOM & SINCGARS/SIP consolidated into SINCGARS**
- **Radar IP Address: Legal range of last sub-field has changed**

# COMM DATA FIELDS




- **NUMBER OF STATIONS: This field was moved from the Comms Server Configuration Data screen. On that screen, it was titled: NAD Number of Stations; the NAD has been dropped.**

# Max Receive Time Field

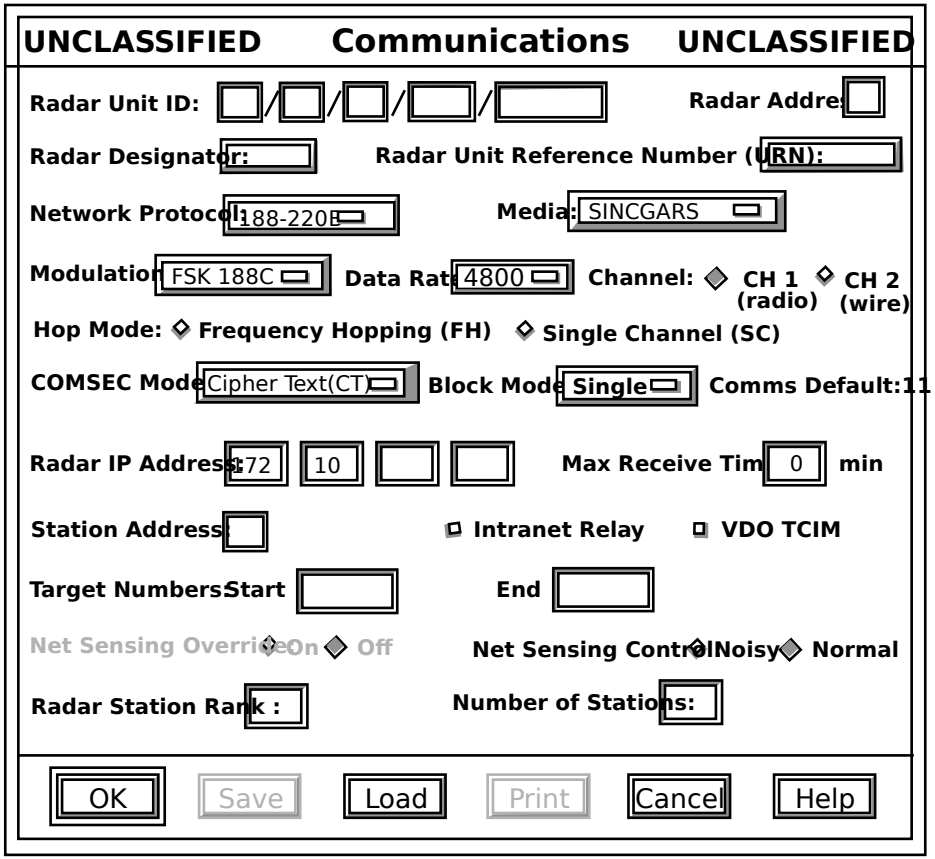



- **Max Receive Time.**
- **Legal range: 0-999.**
- **Time limit for processing long received messages.**
- **Default is 0 = no time limit.**
- **For any other entries, processing of long, received, segmented messages is aborted if the software determines it cannot process message within entered time limit.**

# Commo Data

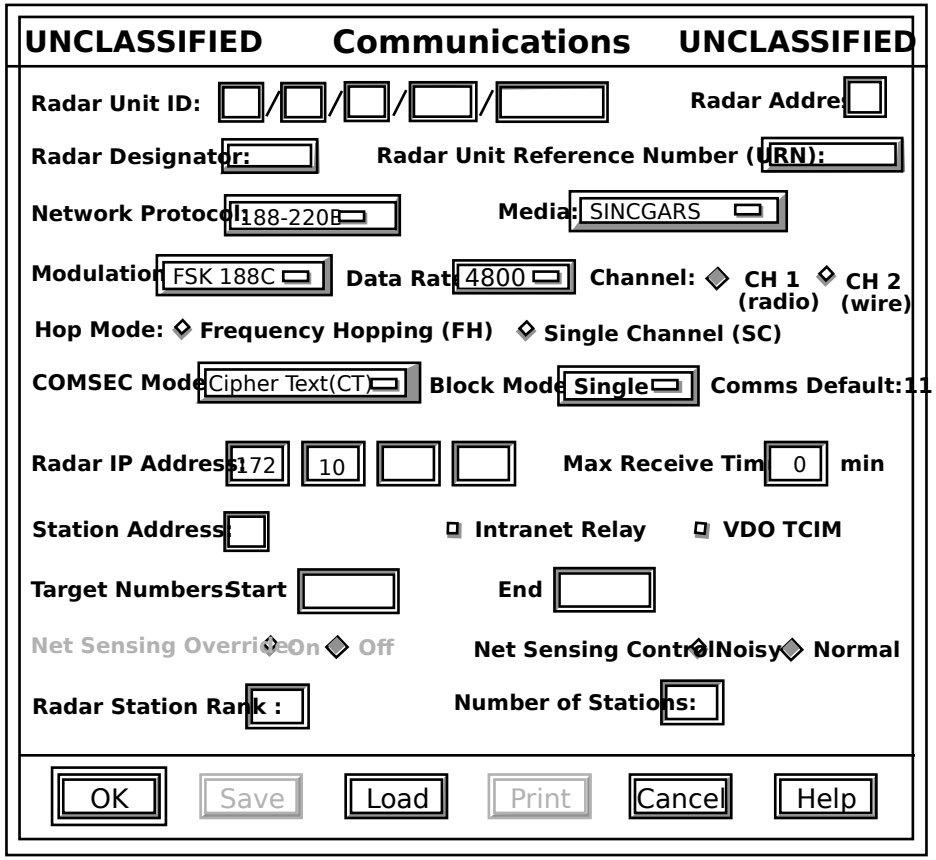
**Identify and explain features of a 188-220B protocol.**

# 188-220B ELEMENTS



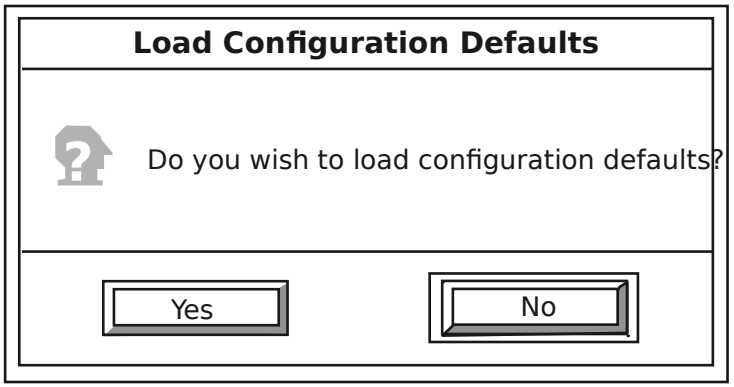

- **New Network Protocol (Net Type) selection 188-220B.**
  - **Comms Default indicator.**
  - **Station Address**
  - **Intranet Relay feature.**
  - **VDO TCIM feature.**

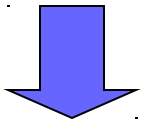
# 188-220B - Load Communications Defaults Option

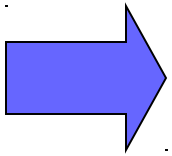


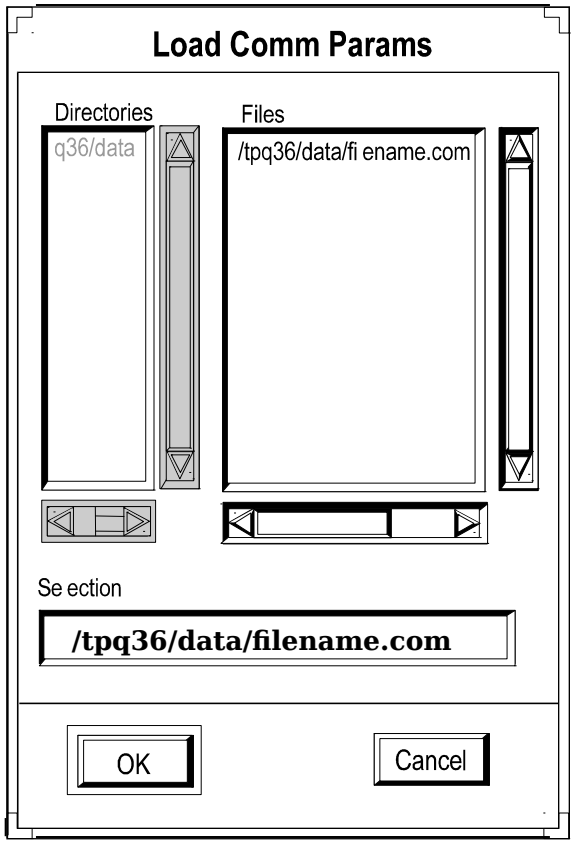

- Operator has option to set certain communications parameters to preset defaults.
- All FS V7.0 systems have same default options.
- On initial display of Communications screen, Comms Default set to 11. This number specifies a custom selection; i.e., selections are open-ended.
- To select a specific set of defaults, click on the **LOAD** button.

# 188-220B - Load Communications Defaults Option (cont.)



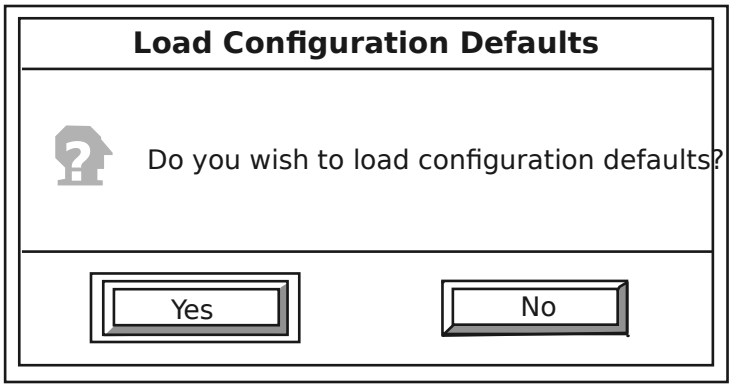





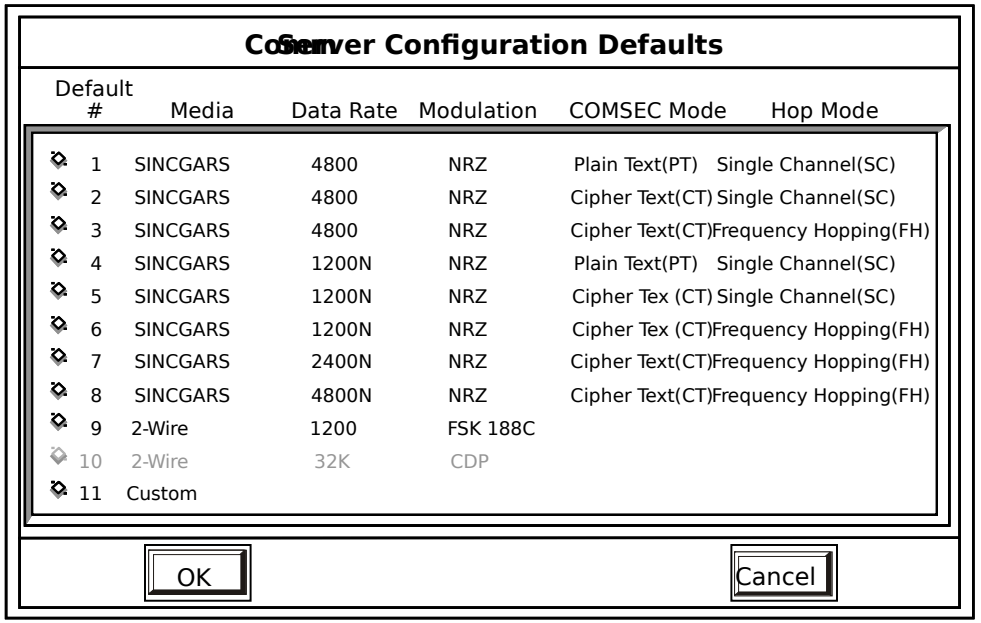



- **Clicking on NO will take you to the Load Comm Params screen:**

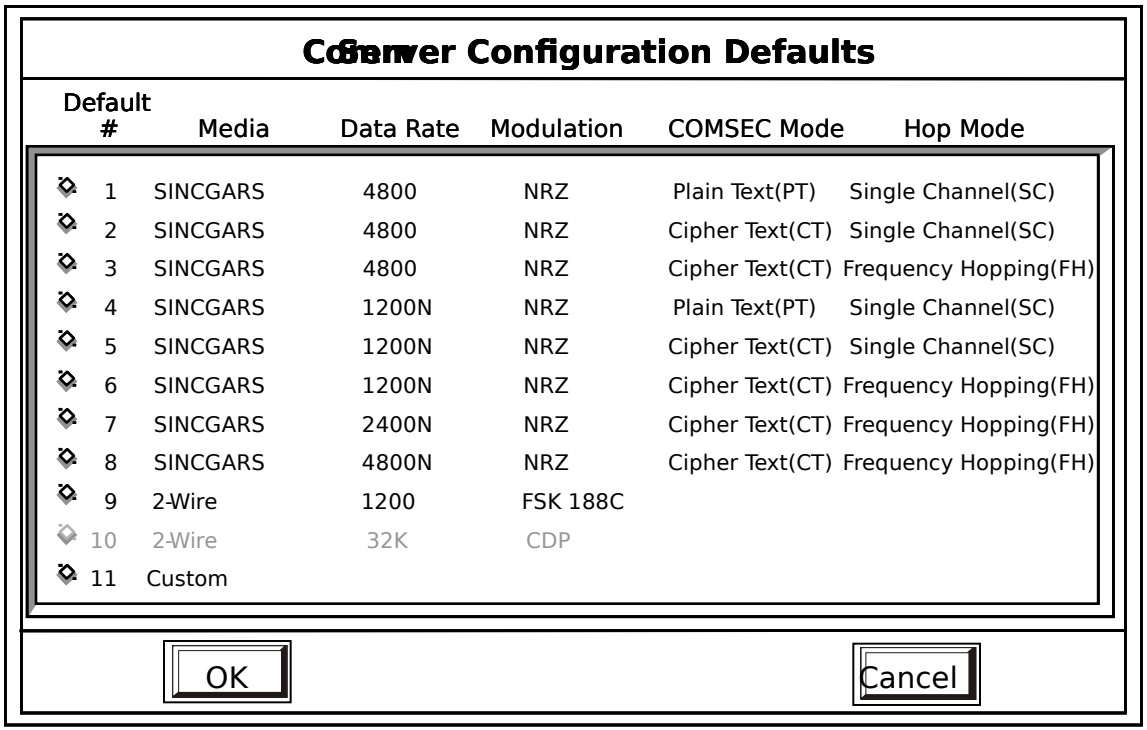
# 188-220B - Load Communications Defaults Option (cont.)




- **Clicking on YES will take you to the Comm Server Configuration Defaults screen:**

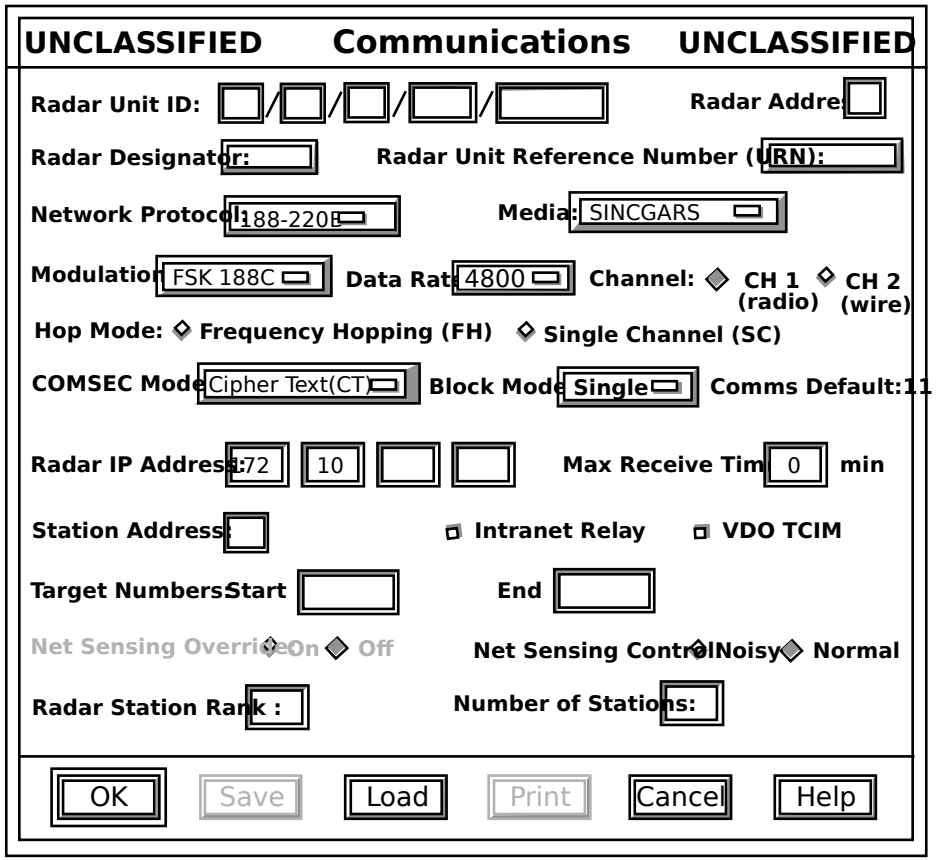

Comm Server Configuration Defaults
Default #
Media
Data Rate
Modulation
COMSEC Mode
Hop Mode
1 SINCGARS 4800 NRZ Plain Text(PT) Single Channel(SC)
2 SINCGARS 4800 NRZ Cipher Text(CT) Single Channel(SC)
3 SINCGARS 4800 NRZ Cipher Text(CT) Frequency Hopping(FH)
4 SINCGARS 1200N NRZ Plain Text(PT) Single Channel(SC)
5 SINCGARS 1200N NRZ Cipher Tex (CT) Single Channel(SC)
6 SINCGARS 1200N NRZ Cipher Tex (CT) Frequency Hopping(FH)
7 SINCGARS 2400N NRZ Cipher Text(CT) Frequency Hopping(FH)
8 SINCGARS 4800N NRZ Cipher Text(CT) Frequency Hopping(FH)
9 2-Wire 1200 FSK 188C
10 2-Wire 32K CDP
11 Custom
OK
Cancel

# 188-220B - Load Communications Defaults Option (cont.)


Comserver Configuration Defaults
Default #
Media
Data Rate
Modulation
COMSEC Mode
Hop Mode
1 SINCGARS 4800 NRZ Plain Text(PT) Single Channel(SC)
2 SINCGARS 4800 NRZ Cipher Text(CT) Single Channel(SC)
3 SINCGARS 4800 NRZ Cipher Text(CT) Frequency Hopping(FH)
4 SINCGARS 1200N NRZ Plain Text(PT) Single Channel(SC)
5 SINCGARS 1200N NRZ Cipher Text(CT) Single Channel(SC)
6 SINCGARS 1200N NRZ Cipher Text(CT) Frequency Hopping(FH)
7 SINCGARS 2400N NRZ Cipher Text(CT) Frequency Hopping(FH)
8 SINCGARS 4800N NRZ Cipher Text(CT) Frequency Hopping(FH)
9 2-Wire 1200 FSK 188C
10 2-Wire 32K CDP
11 Custom
OK
Cancel

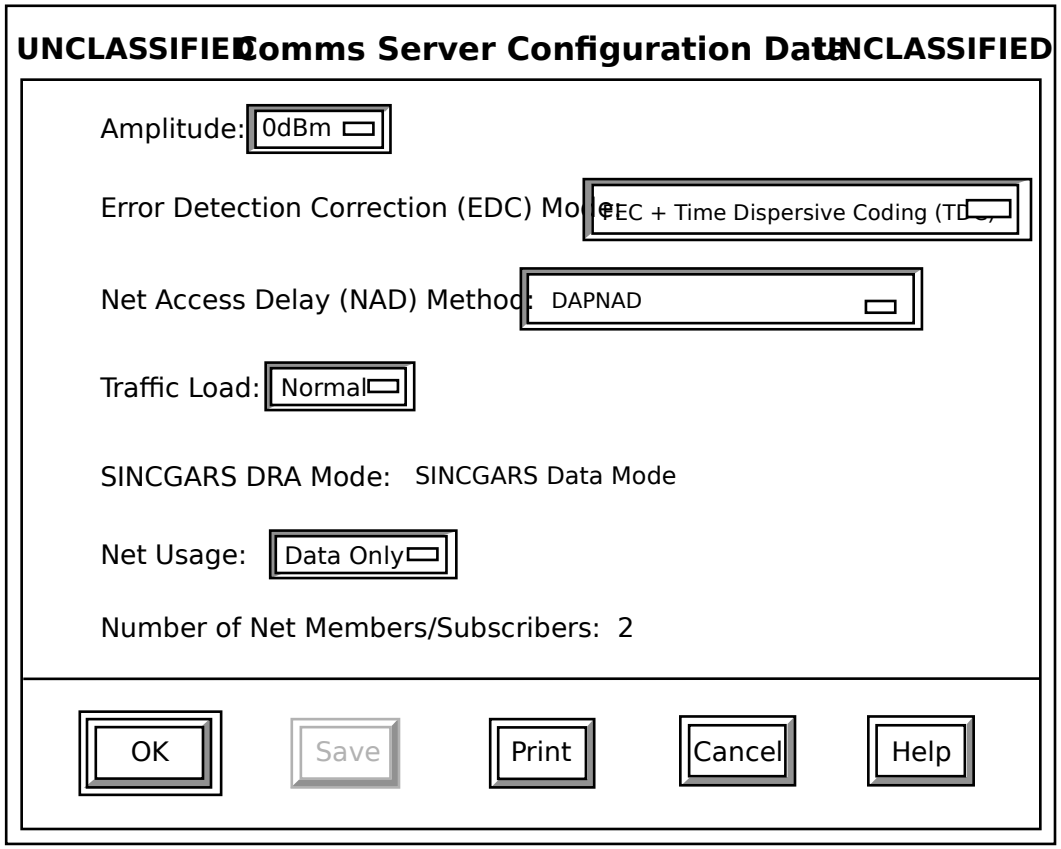
- **Nine selectable sets of defaults.**
- **One non-selectable default.**
- **One custom default.**

# 188-220B - Load Communications Defaults Option (cont.)



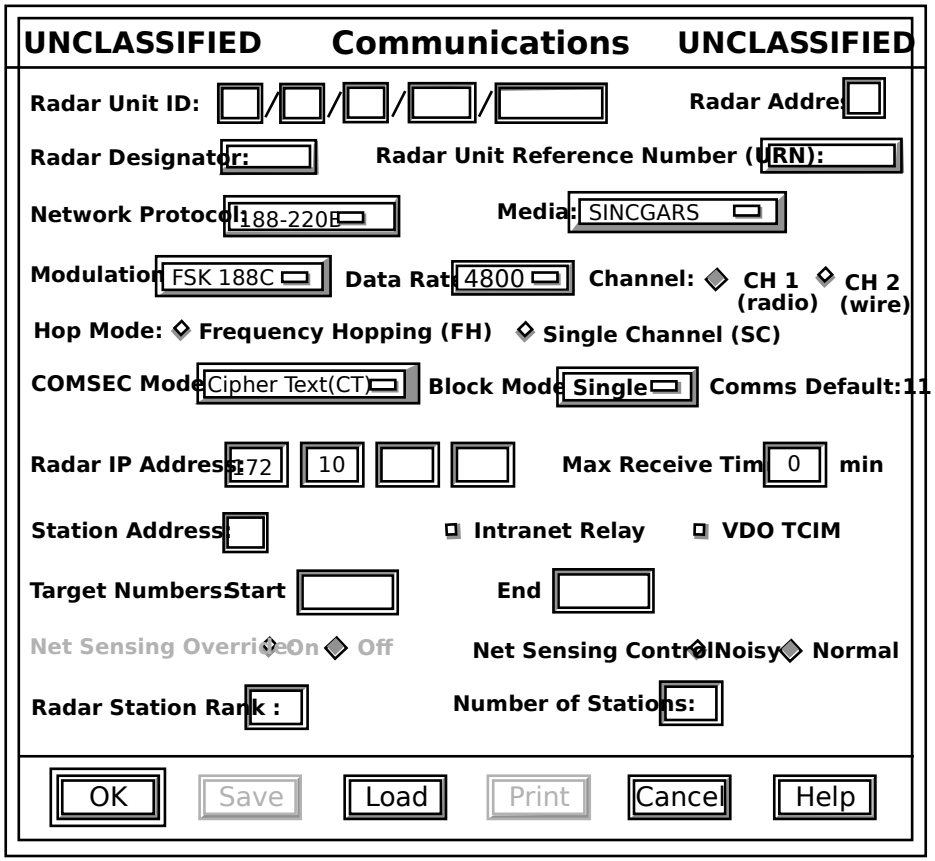

- **Default settings applied.**
- **Comms Default field shows the selected default line.**
- **Fields desensitized.**
- **Operator cannot change settings or protocol until he goes back into Load Defaults and selects line 11 (Custom).**

# 188-220B - Load Communications Defaults Option (cont.)



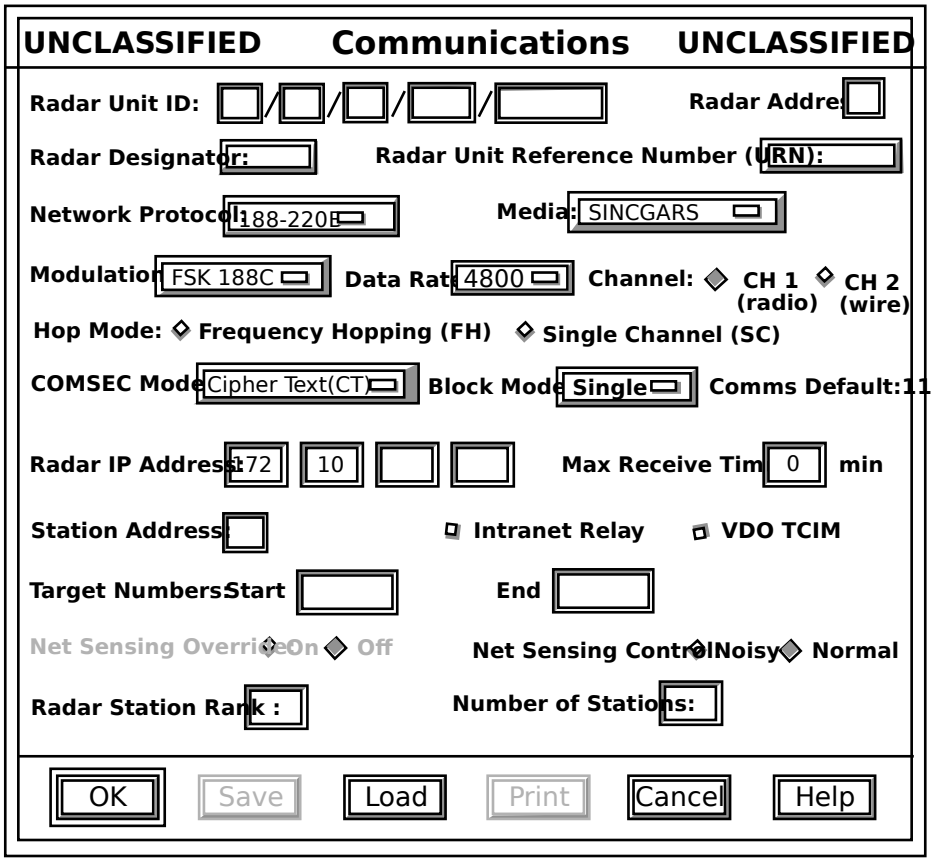

- **Default settings applied to Comms Server Configuration Data screen, also; settings not displayed on Comm Server Configuration Default screen.**
- **For default lines #1, 2, 3, 9, and 11: EDC Mode field set to FEC + TDC; NAD Method field set to DAPNAD.**
- **For default line #4, 5, 6, 7, and 8: EDC Mode field set to None; NAD Method field set to**

# 188-220B - NET Member Address



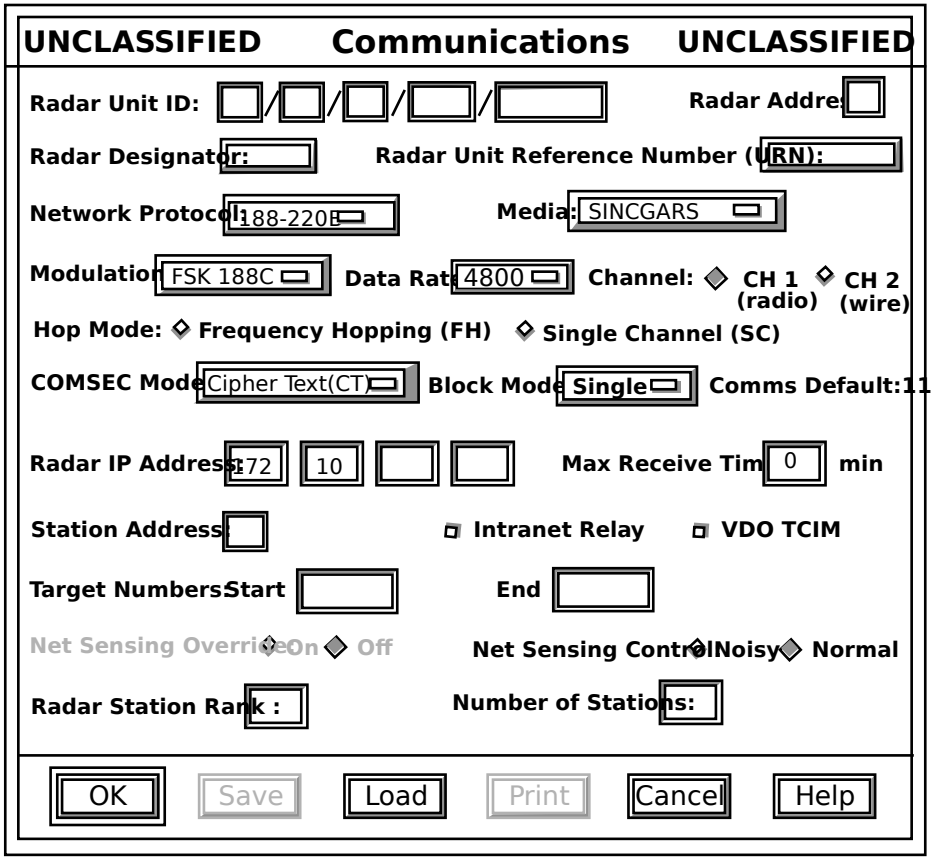

- Alternate address for transmit messages under 560 bytes.
- Entry range is 4-95
- Used in conjunction with N-Layer Bypass
- Value should be provided to operator to enter; if not enter a value based on Station Rank plus 3.

# 188-220B – Intranet Relay Option



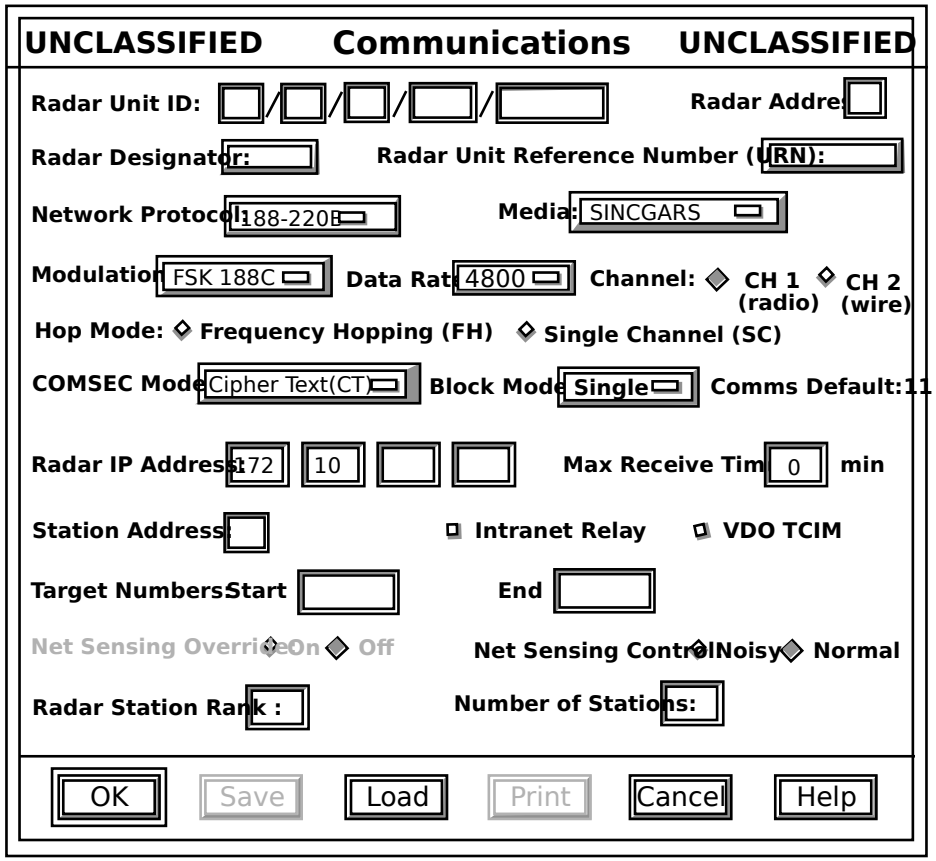

- Enable/Disable
- Two features: Topology Updates and Intranet Relay
- When enabled, for topology update portion, the comm server sends out messages to map the network.
- For Intranet Relay portion, cuts down on network problems when communicating over long distances or in areas with obstacles by relay

# 188-220B – VDO TCIM Option




- New implementation of hardware for FS V7.0 systems.
- VDO = Voice Detect TCIM.
- Used to take advantage of the of the capabilities of the TCIM with the voice detect circuit upgrade.
- If sensitized on this screen with 188-220B selected as the network protocol, the LCU has a VDO TCIM.
- Allows faster throughput of digital message traffic.
- Select only if everyone on

# 188-220B - IP Address Field Ranges




- **In lockstep initialization, 188-220B is the Network Protocol default.**
- **The first two octets default to 172.10.**
- **These default values can be changed by the operator.**

# 188-220B - IP Address Field Ranges

**IP address ranges are different on a 188-220B protocol. Below is a comparison between ranges on a 188-220A protocol versus a 188-220B protocol.**

**188-220A IP Address Ranges:**

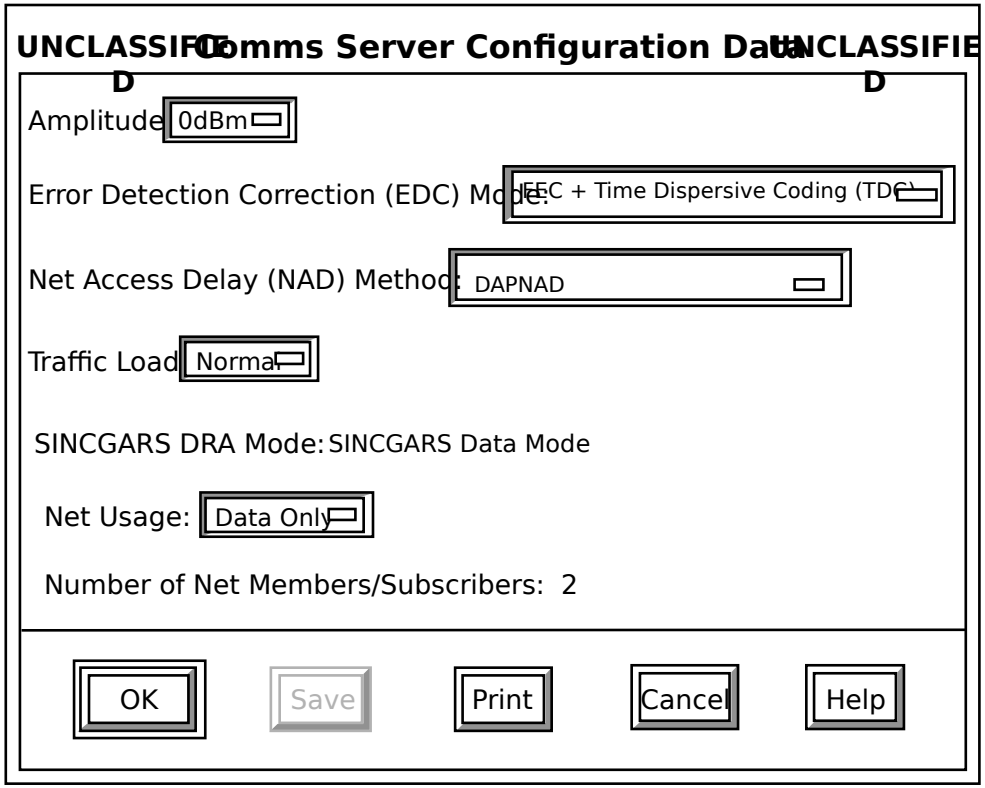
| | | | |
|---|---|---|---|
| 128 - 191 | 0 - 255 | 0 - 255 | 4 - 95 |

**188-220B IP Address Ranges:**

| | | | |
|---|---|---|---|
| 1 - 126 and 128-223 | 0 - 255 | 0 - 255 | 4 - 95 |

# Screen Changes

## VERSION 7.0

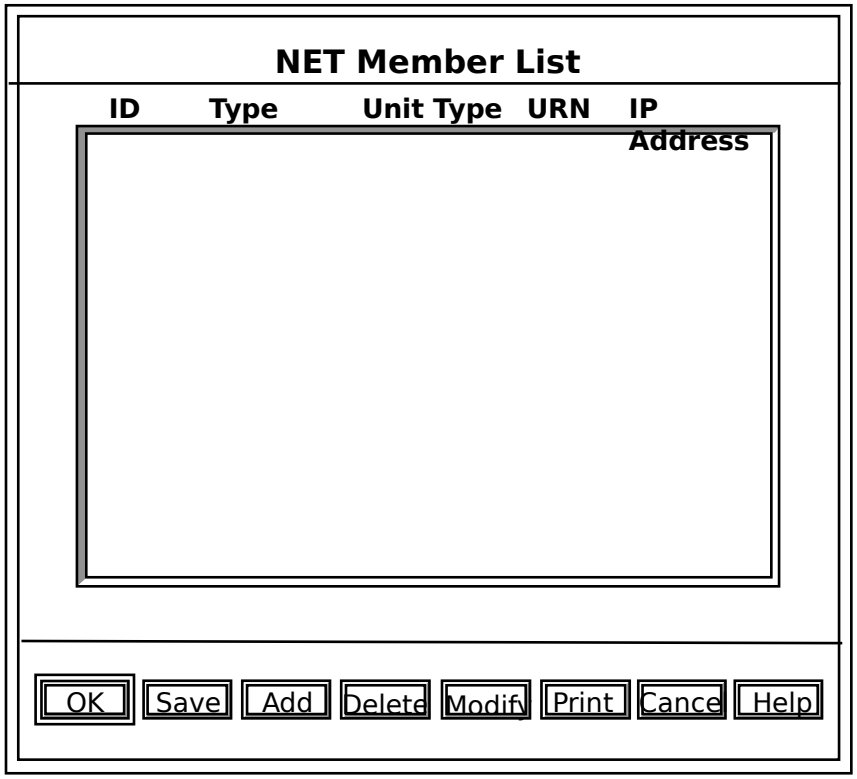


# FIELD NAME CHANGES

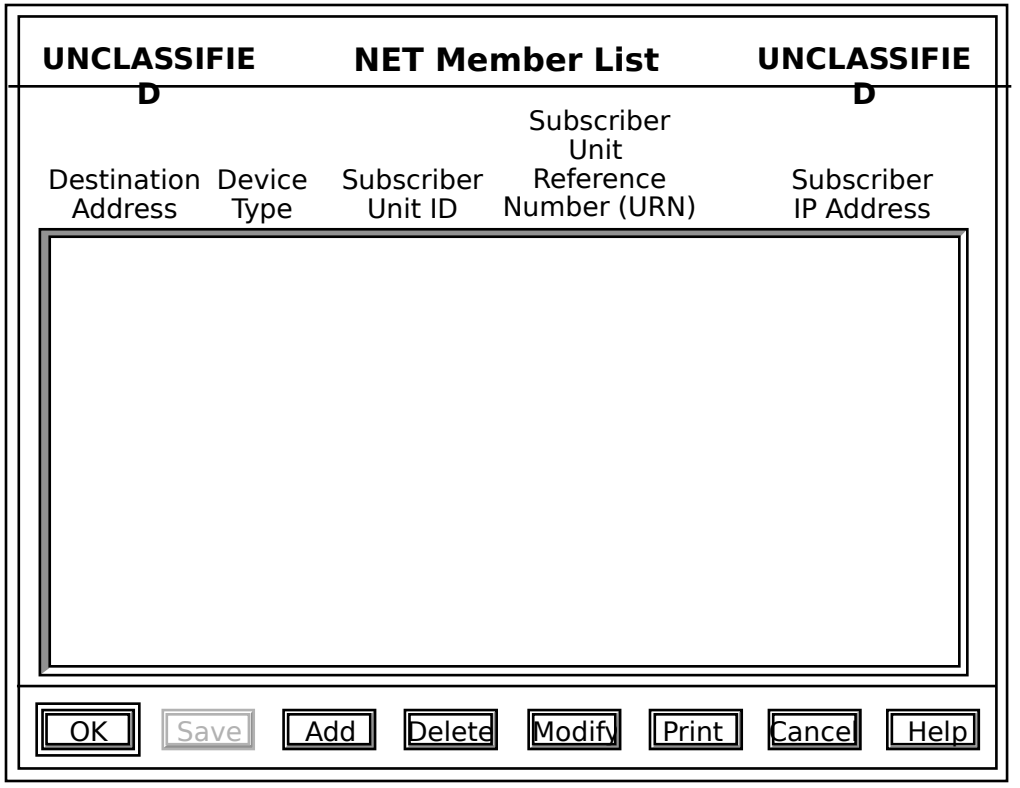
| Comms Server Configuration Data Screen | |
|---|---|
| FF-EU V12 | FF-EU V7.0 |
| Amplitude | No Change |
| 0 dbm | 0 dBm |
| -6 dbm | -6 dBm |
| -13 dbm | -13 dBm |
| Error Detection Correction Mode | Error Detection Correction (EDC) Mode |
| None | No Change |
| Scrambling | No Change |
| FEC | No Change |
| FEC with Scrambling | FEC + Scrambling |
| FEC with Time Dispersive Coding (TDC) | FEC + Time Dispersive Coding (TDC) |
| FEC with TDC and Scrambling | FEC + TDC + Scrambling |
| Double FEC with TDC | Double FEC + TDC |
| Net Access Delay (NAD) Method | No Change |
| DAPNAD | No Change |
| HNAD | Hybrid NAD |
| PNAD | Prioritized NAD |
| RNAD | Random NAD |
| Round Robin Adaptive | Adaptive NAD |
| NAD Traffic Method | Traffic Load |
| NAD Number of Stations | Moved to Communications Screen |
| Number of Net Members | Number of Net Members/Subscribers |

# Net Member List - Screen Changes

## VERSION 11




## VERSION 7.0




MAXIMUM OF 10 NET MEMBERS CAN BE ENTERED COMMUNICATED AT ONE TIME

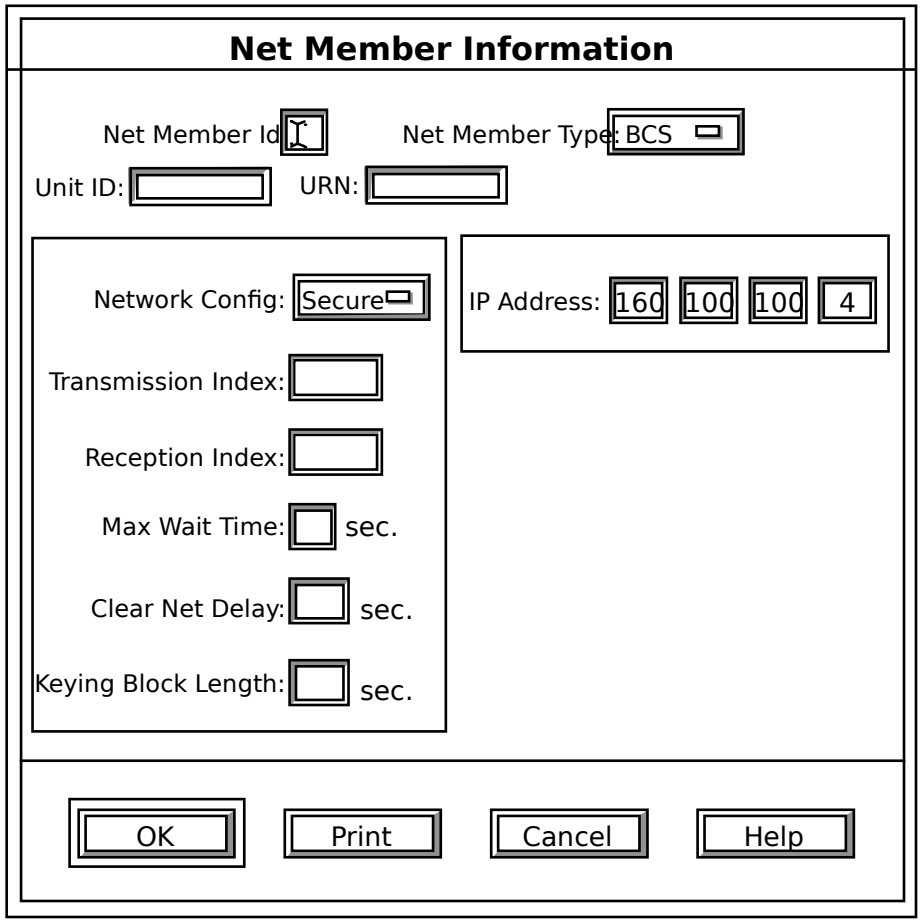
*ONLY 1 NET MEMBER CAN BE

# Net Member List - Screen Changes (cont.)

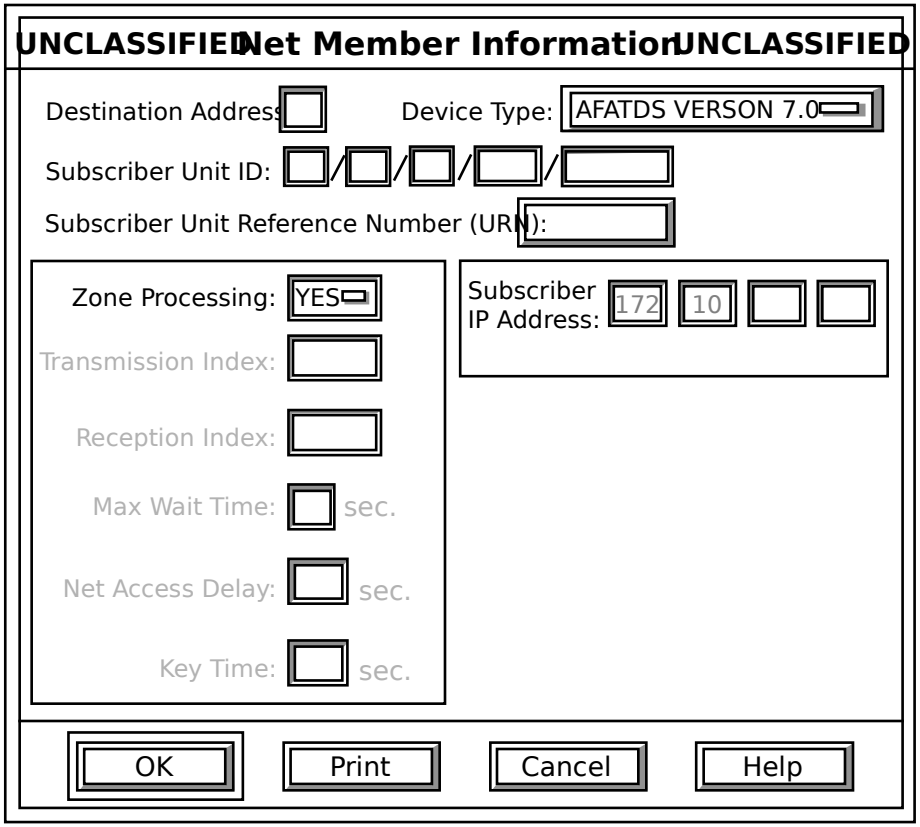
| Net Member List Screen | |
|---|---|
| FF-EU V12 | FF-EU V7.0 |
| ID | Destination Address |
| Type | Device Type |
| Unit ID | Subscriber Unit ID |
| URN | Subscriber Unit Reference Number (URN) |
| IP Address | Subscriber IP Address |

# Net Member Information - Screen Changes

## VERSION 11




## VERSION 7.0



# Net Member Information – Screen Changes (cont.)

| Net Member Information Screen | |
|---|---|
| FF-EU V12 | FF-EU V7.0 |
| Net Member ID | Destination Address |
| Net Member Type | Device Type |
| Unit ID | Subscriber Unit ID |
| URN | Subscriber Unit Reference Number (URN) |
| Network Config | Zone Processing (YES = Auto; NO = Rcv Queue) |
| IP Address | Subscriber IP Address |
| Clear Net Delay | Net Access Delay |
| Keying Block Length | Key Time |

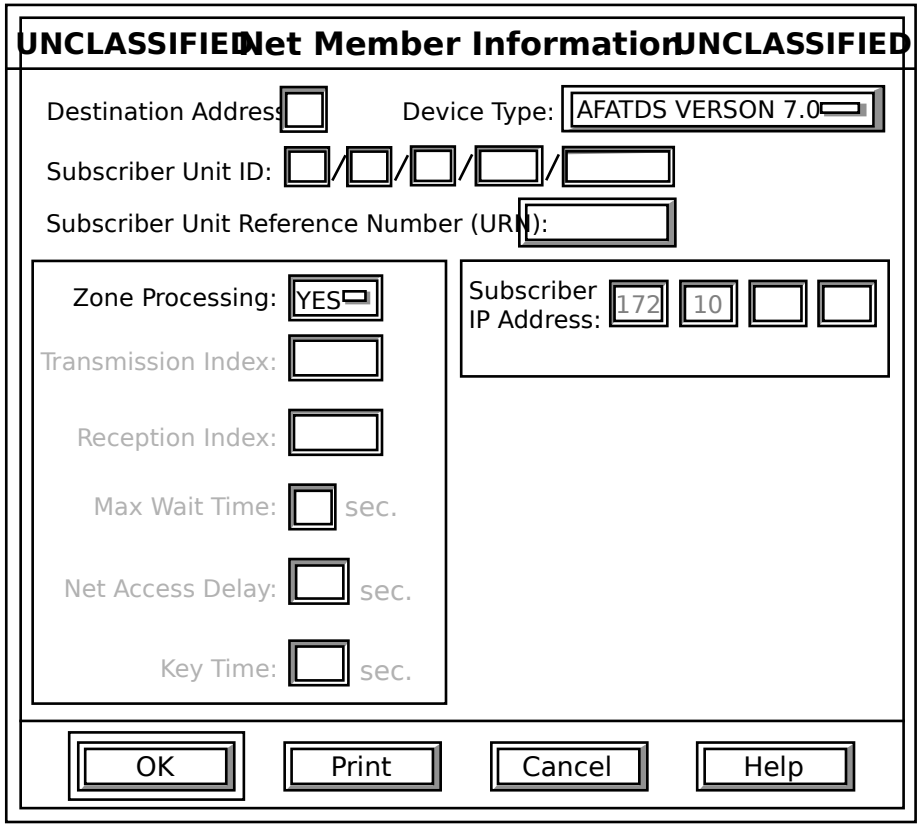
# Net Member Information – Device Type Changes

- **Device types now distinguished as: VERSION 10 (for fixed), VERSION 11 (for AVMF), or VERSION 7.0 (for JVMF).**
- **These device types can talk on an IFSS (TACFIRE) protocol: VERSION 10, VERSION 11, and VERSION 7.0.**
- **These device types can talk on a 188-220A protocol:  VERSION 11 and VERSION 7.0.**
- **This device type can talk on a 188-**

# Net Member Information – Device Type Changes (cont.)

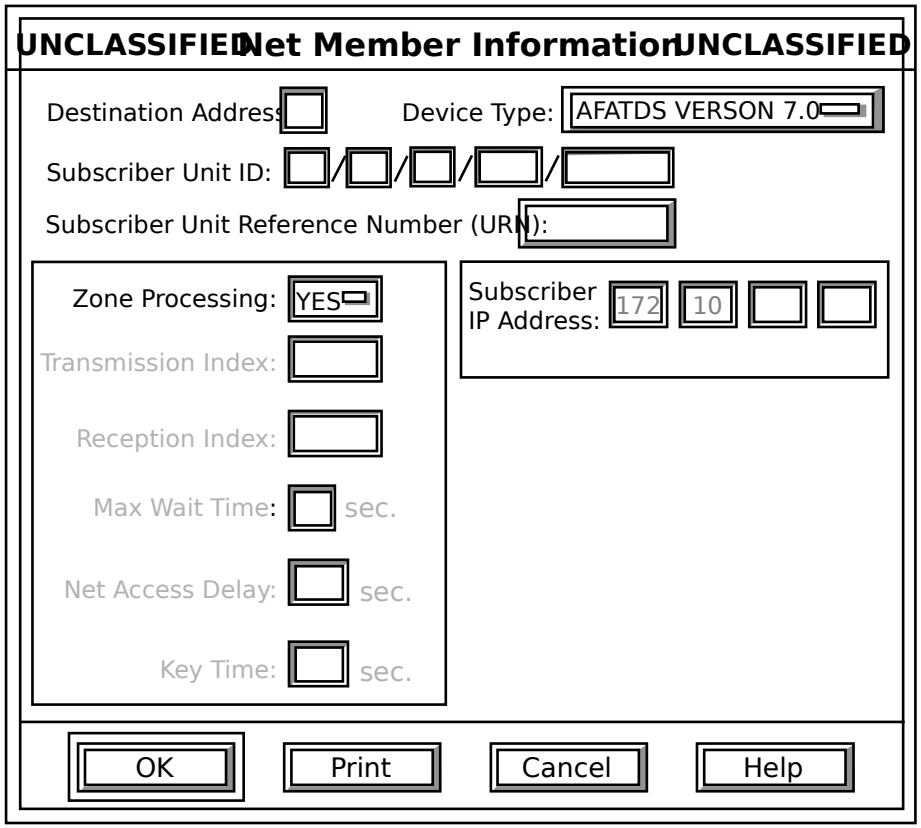
- **NOTE: The AFATDS interface is not compatible with VERSION 7.0 devices; use IFSAS VERSION 11 to setup AFATDS subscribers.**
- **Device types AFCS and IDM have been desensitized; they cannot be selected.**
- **New selections: AFATDS VERSION 7.0, IFSAS VERSION 7.0, FF VERSION 7.0, MLRS-FDS VERSION 7.0, BCS VERSION 7.0, Other VERSION 7.0, IFSAS VERSION 11, FF VERSION 11, MLRS-FDS VERSION 11, BCS VERSION 11, Other VERSION 11, FF VERSION 10, and Other VERSION 10.**
- **FF VERSION 10 should be used for legacy radars; FF VERSION 11 should be used for FF-EU using V11 software.**

# Net Member Information – Zone Processing Option




- In Version 12, was Network Configuration option menu.
- Two options for Zone Processing: YES and NO.
- YES = All valid received zones processed automatically.
- NO = All valid

# Net Member Information – Subscriber IP Address




- **In Version 12, first 2 fields of IP address filled in by software, but operator could change them.**
- **In Version 7.0, first 2 fields (188-220A) or first 3 fields (188-220B) of IP address are filled in by software and desensitized.**
- **Desensitized portions represent**

# Net Member Information – Net Access Delay & Key Time Ranges

| VERSION 12 | VERSION 7.0 |
|---|---|
| Clear Net Delay | Net Access Delay |
| Range: .5 to 5.0 | Range: 0.0 to 49.5 |
| Increments: .5 seconds | Increments: .5 seconds |
| | |
| Keying Block Length | Key Time |
| Range: .2 to 4.7 | Range: .2 to 4.0 |
| Increments: .5 | Increments: .1 |

# Enabling Learning Objective 11

**Explain Max Wait Time Changes.**

# Max Wait Time – IFSS (TACFIRE)/6 Char Network Protocol

**On an IFSS (TACFIRE) net, the max wait time when communicating with VMF net member types is:**

- **5.25 seconds for tactical application messages.**
- **For large messages that may be segmented for transmission, the 5.25 seconds apply to transmission of each segment.**
- **Transmittal attempted a total of 4**

# Max Wait Time - 188-220A Net

**On 188-220A/B protocols, the max wait time when communicating with VMF (Version 11 and Version 7.0) device types is:**

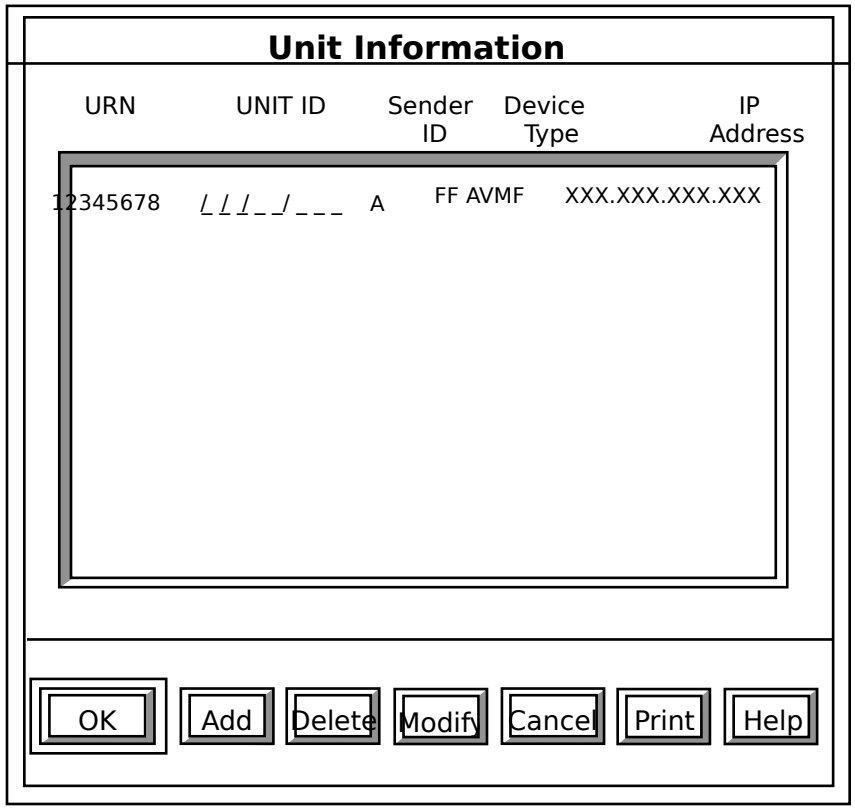
- **1.5 minutes for tactical application messages**
- **15 minutes for most Class III COI messages**
- **2 or more hours for large Class III COI messages (K05.15, Field Orders, completely filled out).**
- **Transmittal attempted once.**

# Enabling Learning Objective 12

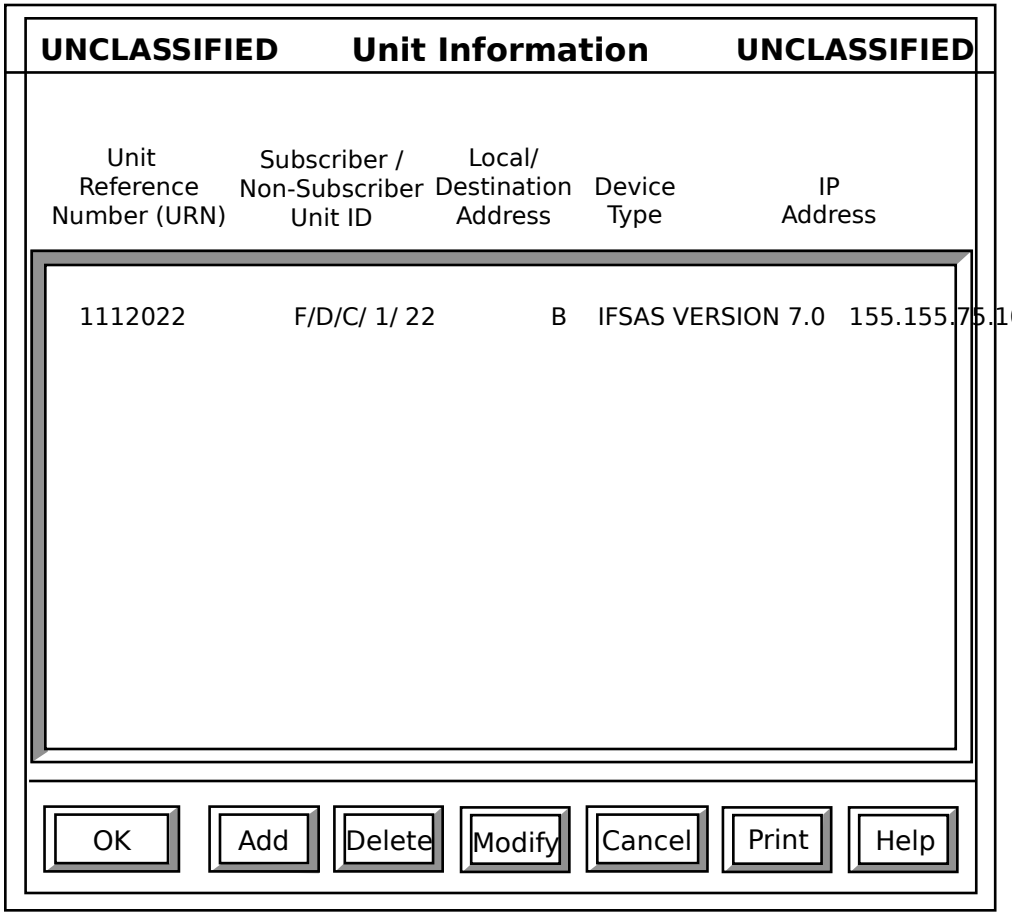
**Explain standardization changes to Unit Information screens.**

# Unit Information - Screen Changes

## Version 12



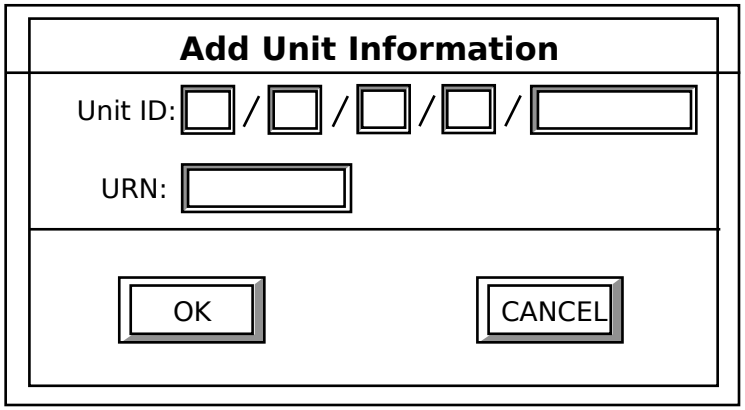

## Version 7.0



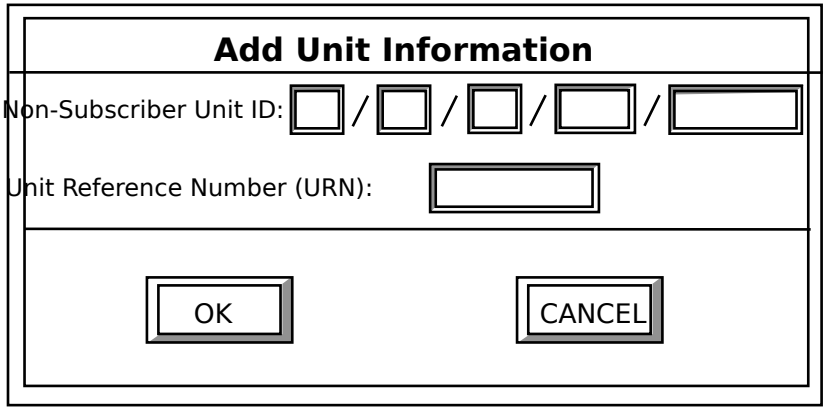
# Unit Information - Screen Changes (cont.)

| Unit Information Screen | |
|---|---|
| FF-EU V12 | FF-EU V7.0 |
| URN | Unit Reference Number (URN) |
| Unit ID | Subscriber/Non-Subscriber Unit ID |
| Sender ID | Local/Destination Address |

# Unit Information - Screen Changes (cont.)




**Version 12**

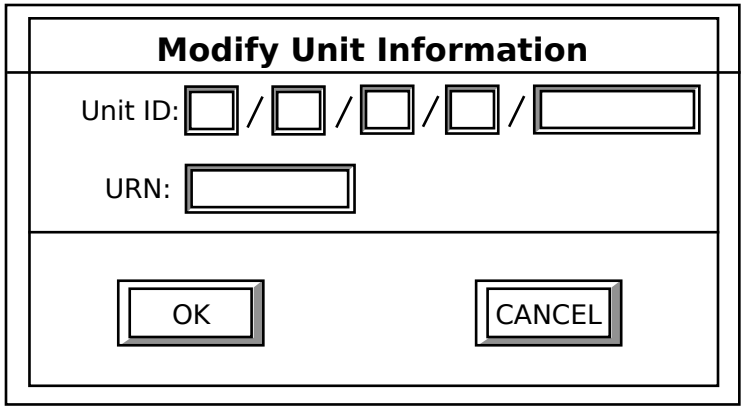



**Version 7.0**

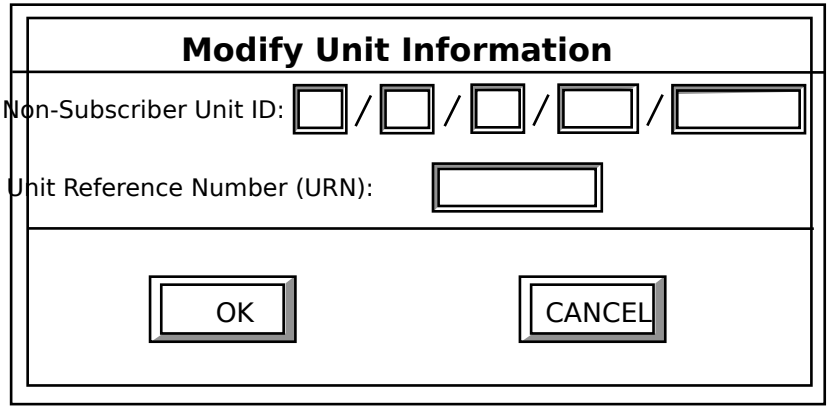
# Unit Information - Screen Changes (cont.)

| Add Unit Information Screen | |
|---|---|
| FF-EU V12 | FF-EU V7 |
| Unit ID | Non-Subscriber Unit ID |
| URN | Unit Reference Number (URN) |

# Unit Information - Screen Changes (cont.)




**Version 12**




**Version 7.0**

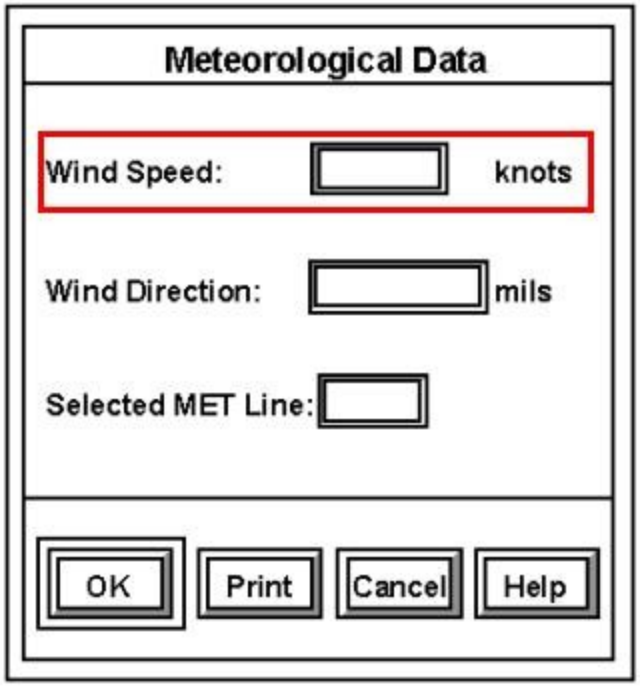
# Unit Information - Screen Changes (cont.)

| Modify Unit Information | |
|---|---|
| FF-EU V12 | FF-EU V7.0 |
| Unit ID | Non-Subscriber Unit ID |
| URN | Unit Reference Number (URN) |

# ENTER MET & TERRAIN FOLLOWING DATA

**Options:**
**0 - 300**

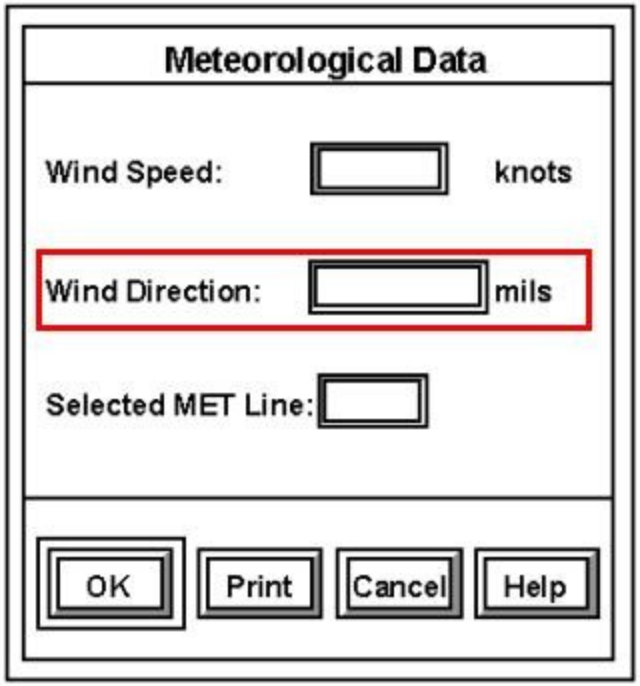
**NOT NEEDED UNLESS WINDS ARE ABOVE 20 KNOTS**




AR56VF-74

# ENTER MET & TERRAIN FOLLOWING DATA

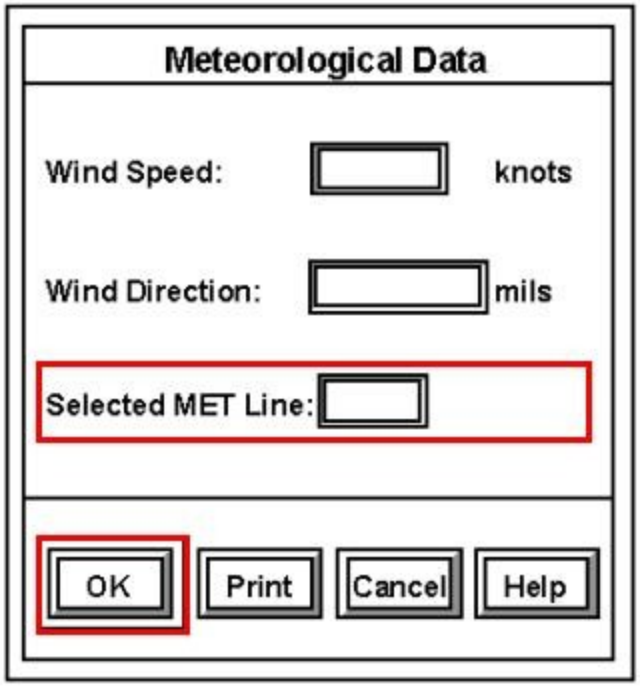
**Options:**
**0 - 6,400**




AR56VF-75

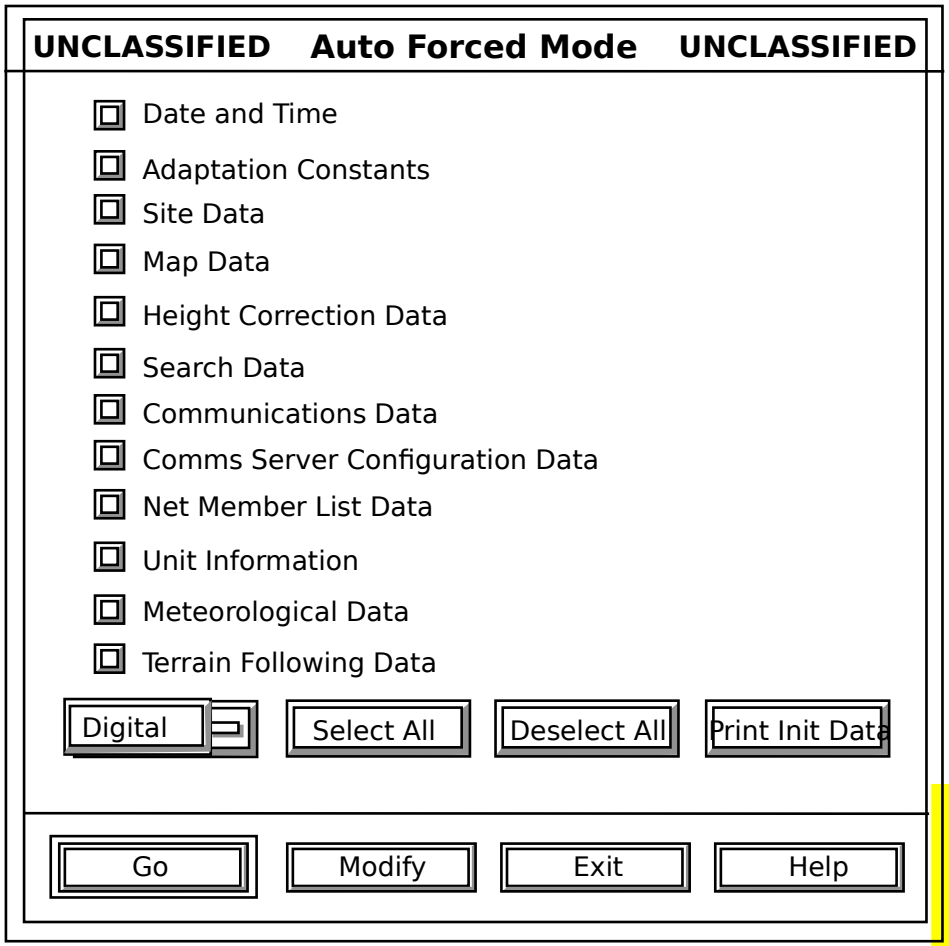
# ENTER MET & TERRAIN FOLLOWING DATA

**Enter value from MET:TA, then click OK**



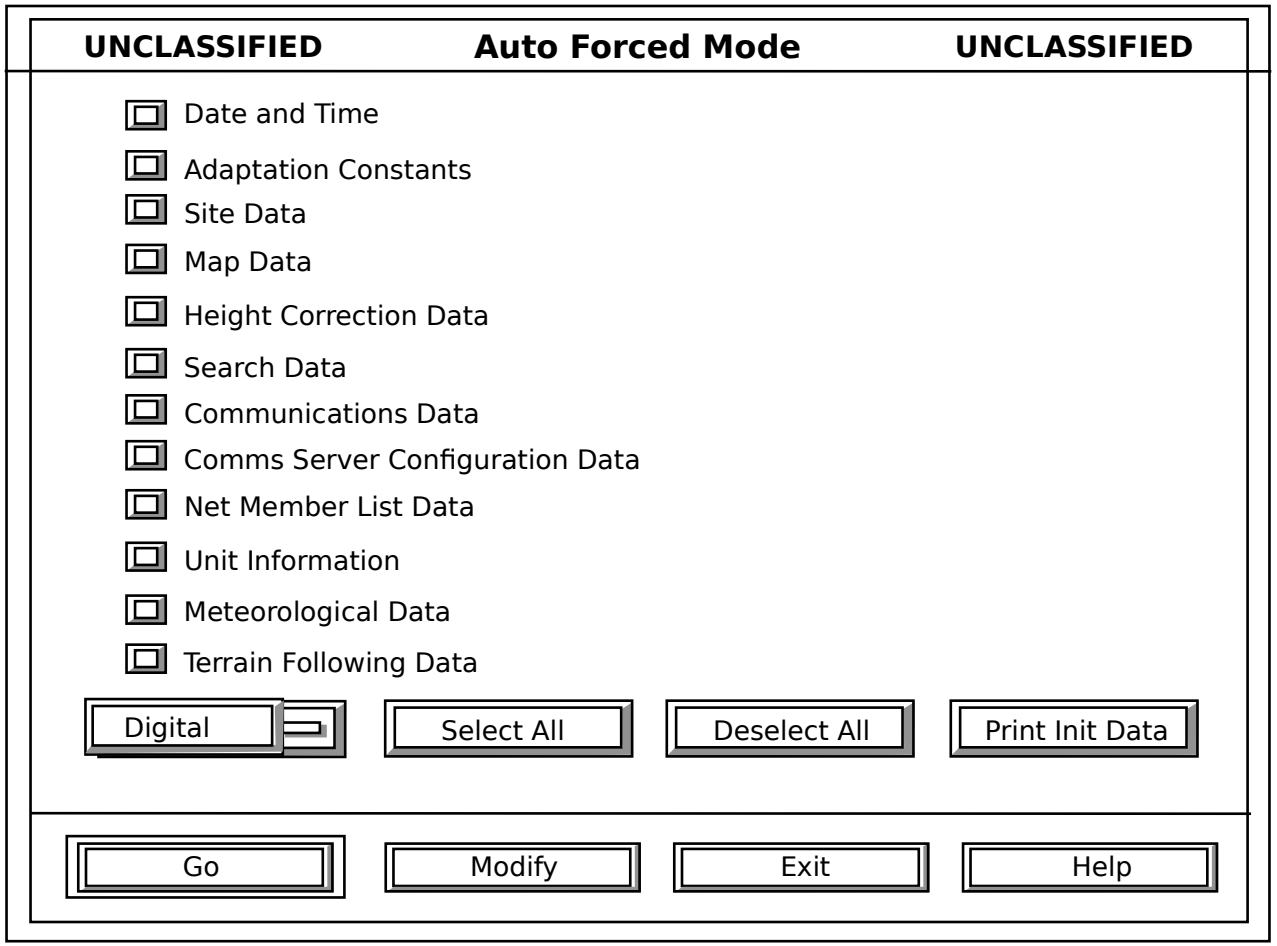

AR56VF-76

# Auto Forced Mode

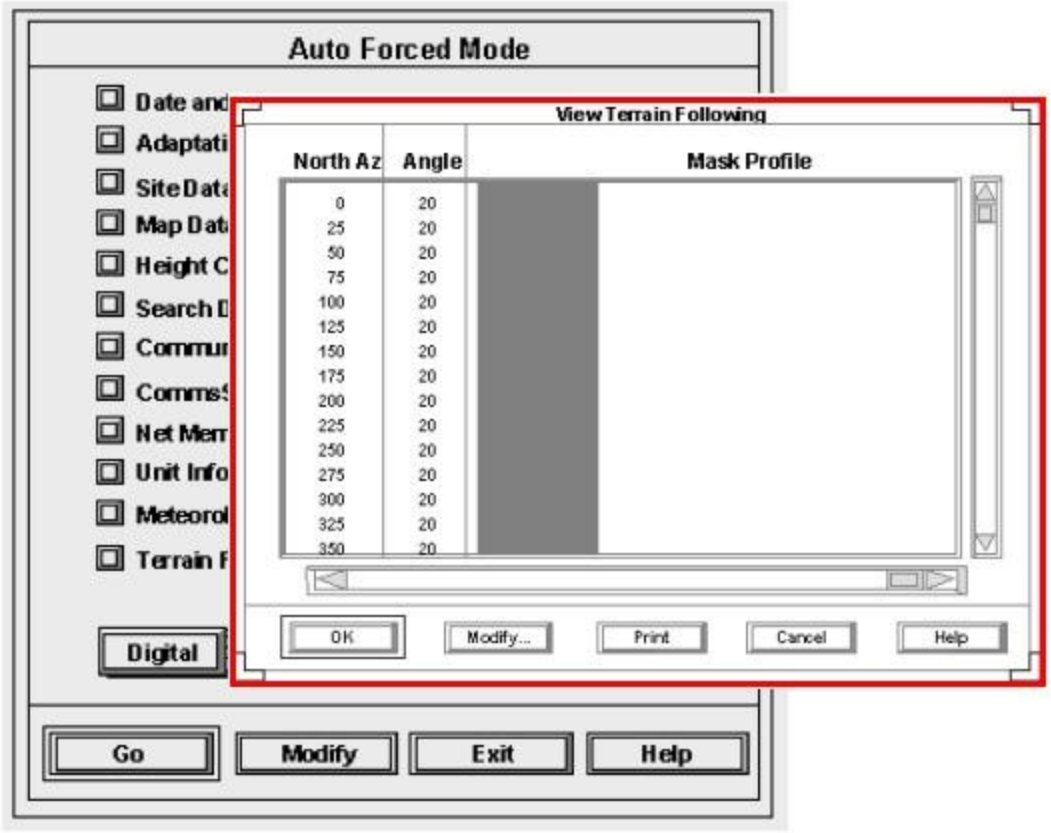



- **The Auto Forced Mode Screen allows you to review and or modify the initialization data.**
- **When you get to this screen during your initialization, any entries entered in error may be corrected.**
- **By selecting the screen to be checked, you can verify the correct data has been entered, and make any necessary corrections.**
- **Team Leader needs to verify the correct data has been entered.**

**Note: the selections under Terrain Following Data are grayed out, and can't be changed until Terrain Following data is**

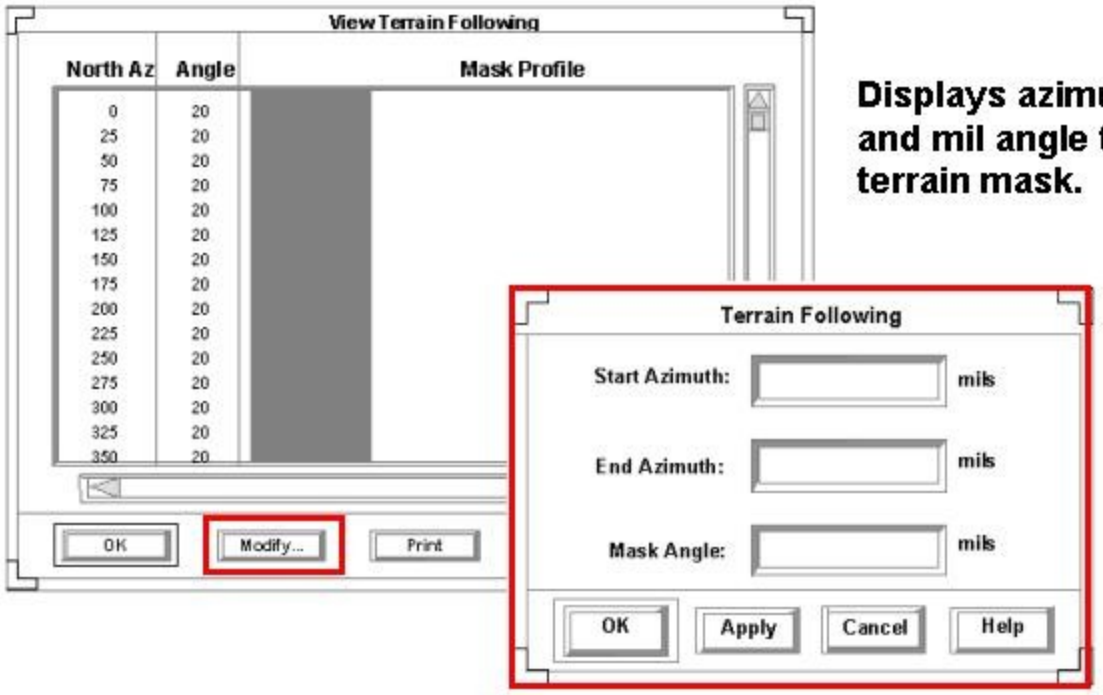

UNCLASSIFIED
Auto Forced Mode
UNCLASSIFIED
Date and Time
Adaptation Constants
Site Data
Map Data
Height Correction Data
Search Data
Communications Data
Comms Server Configuration Data
Net Member List Data
Unit Information
Meteorological Data
Terrain Following Data
Digital
Select All
Deselect All
Print Init Data
Go
Modify
Exit
Help

# ENTER MET & TERRAIN FOLLOWING DATA




AR56VF-83

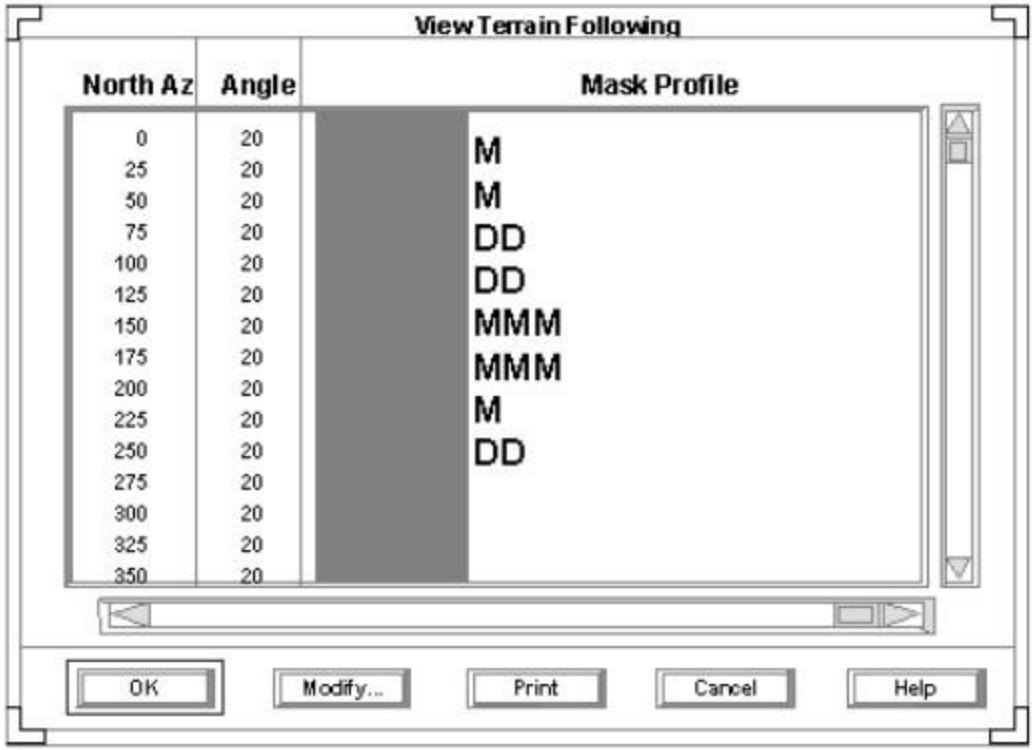
# ENTER MET & TERRAIN FOLLOWING DATA




**Displays azimuth and mil angle to the terrain mask.**

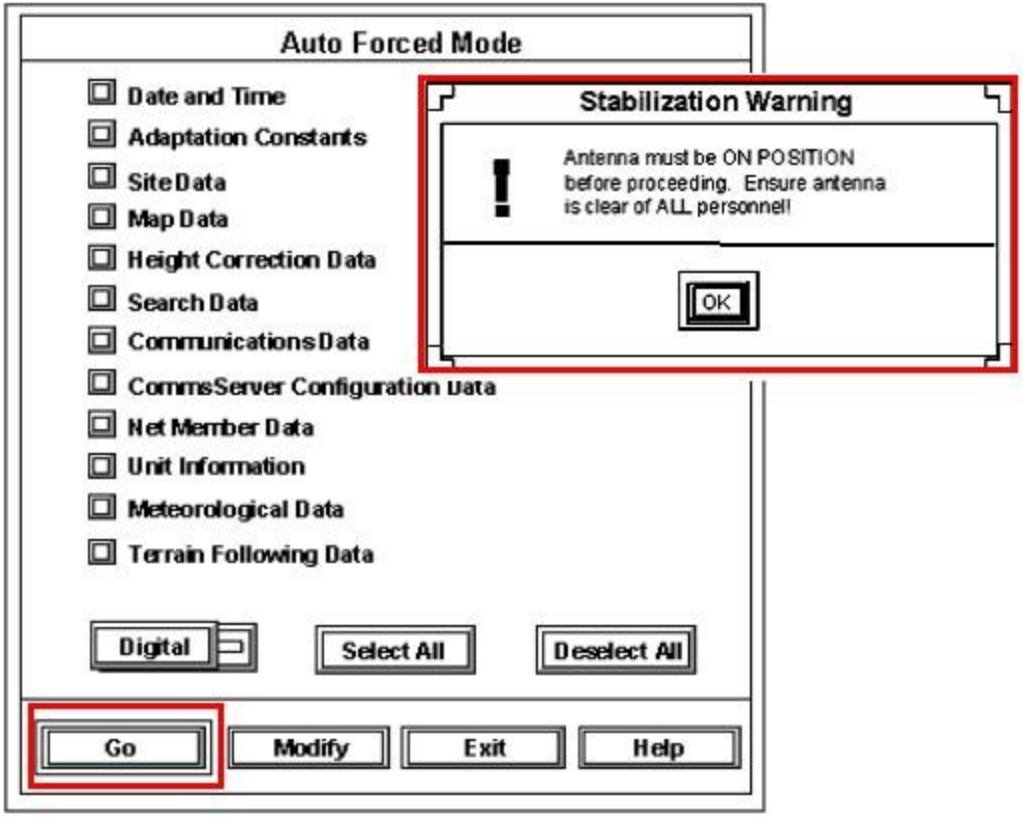
AR56VF-79

# ENTER MET & TERRAIN FOLLOWING DATA



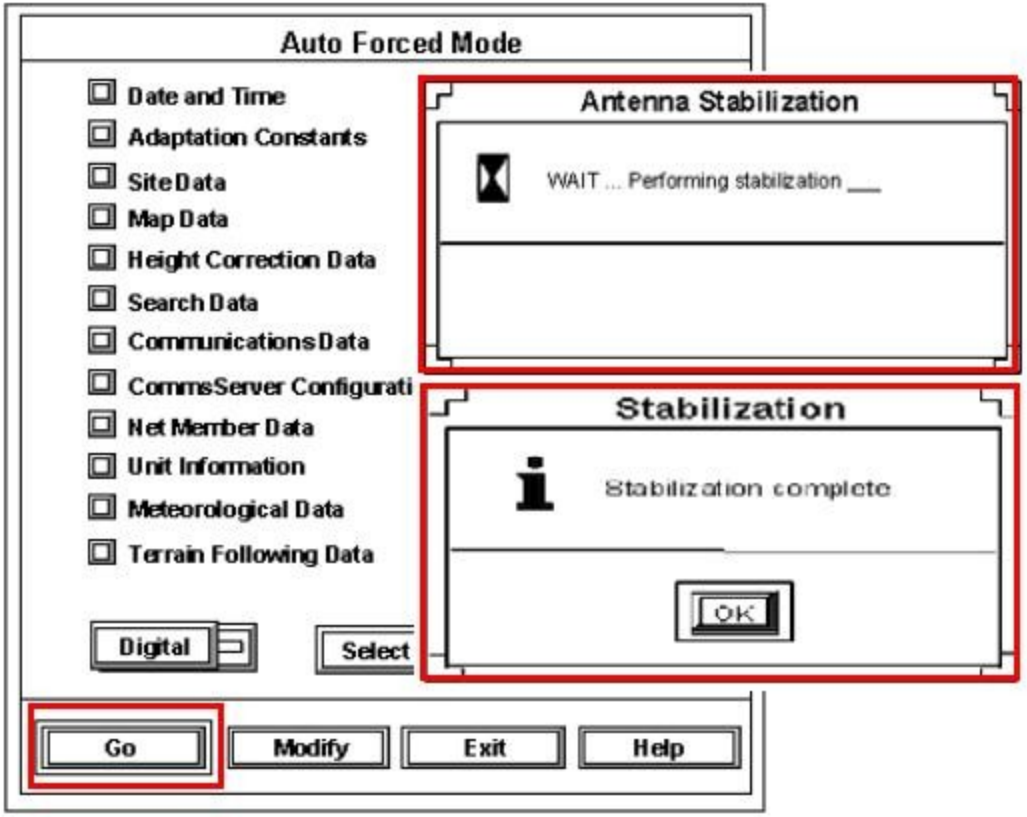

AR56VF-81

# ENTER MET & TERRAIN FOLLOWING DATA



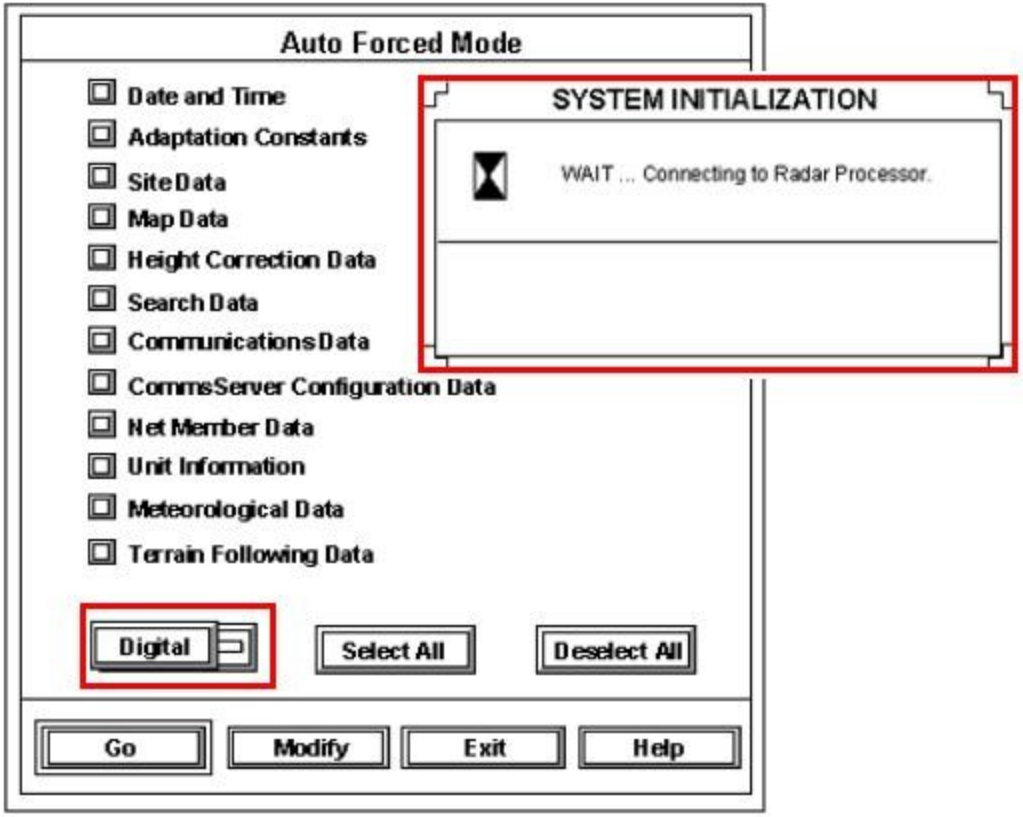

AR56VF-86

# ENTER MET & TERRAIN FOLLOWING DATA



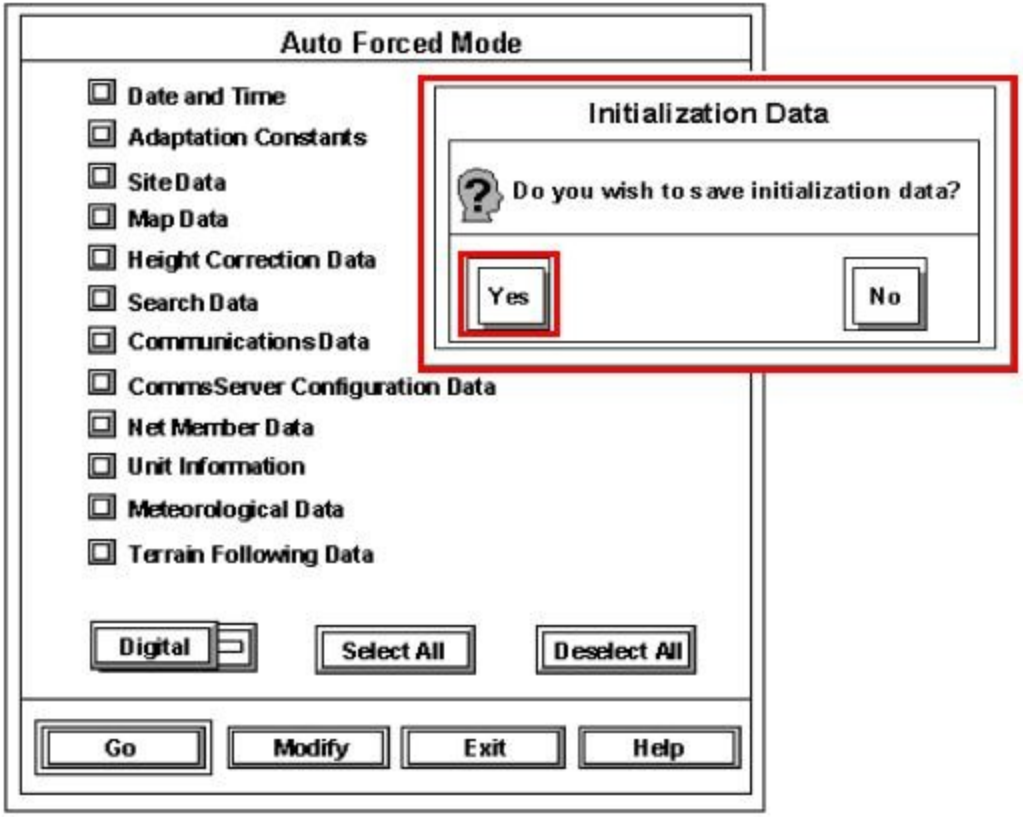

AR56VF-87

# ENTER MET & TERRAIN FOLLOWING DATA




AR56VF-85

# ENTER MET & TERRAIN FOLLOWING DATA

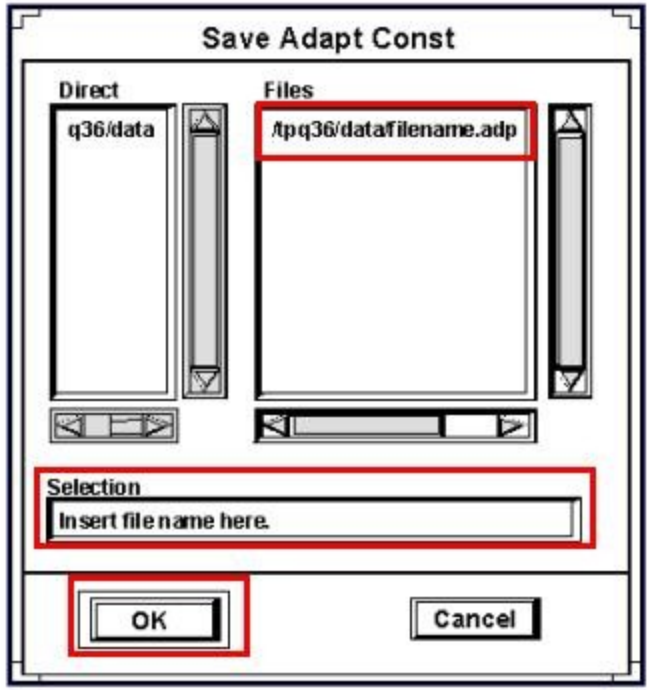



AR56VF-88

# LOAD INITIALIZATION DATA

**-- Select the file you wish to overwrite.**

**-- Create new file here. Must have .ADP extension.**




**-- Click OK when you are finished.**

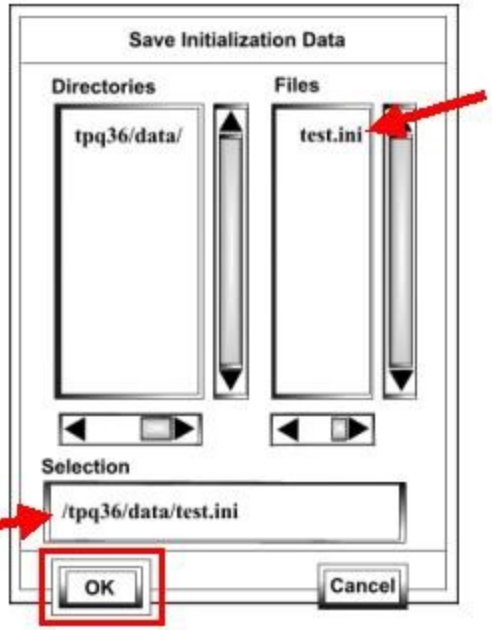
AR56VF-11

# LOAD INITIALIZATION DATA

**-- Click on the file you want**

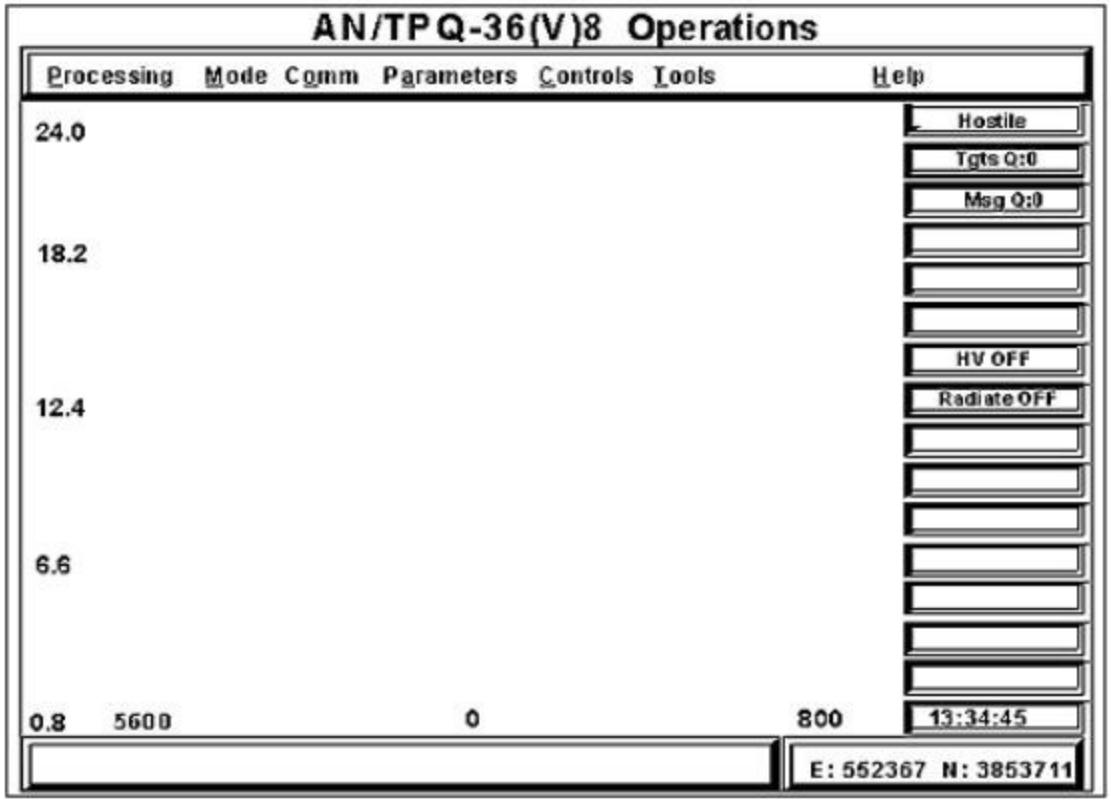
**-- The file name appears here**

**-- Then click OK**




AR56VF-2

# ENTER MET & TERRAIN FOLLOWING DATA




AR56VF-91